

65	70	75	80
Gly Ile Pro Ala Ile Val Lys Leu Leu Asn Gln Pro Asn Gln Trp Pro	85	90	95
Leu Val Lys Ala Thr Ile Gly Leu Ile Arg Asn Leu Ala Leu Cys Pro	100	105	110
Ala Asn His Ala Pro Leu Gln Glu Ala Ala Val Ile Pro Arg Leu Val	115	120	125
Gln Leu Leu Val Lys Ala His Gln Asp Ala Gln Arg His Val Ala Ala	130	135	140
Gly Thr Gln Gln Pro Tyr Thr Asp Gly Val Arg Met Glu Glu Ile Val	145	150	155
Glu Gly Cys Thr Gly Ala Leu His Ile Leu Ala Arg Asp Pro Met Asn	165	170	175
Arg Met Glu Ile Phe Arg Leu Asn Thr Ile Pro Leu Phe Val Gln Leu	180	185	190
Leu Tyr Ser Ser Val Glu Asn Ile Gln Arg Val Ala Ala Gly Val Leu	195	200	205
Cys Glu Leu Ala Gln Asp Lys Glu Ala Ala Asp Ala Ile Asp Ala Glu	210	215	220
Gly Ala Ser Ala Pro Leu Met Glu Leu Leu His Ser Arg Asn Glu Gly	225	230	235
Thr Ala Thr Tyr Ala Ala Ala Val Leu Phe Arg Ile Ser Glu Asp Lys	245	250	255
Asn Pro Asp Tyr Arg Lys Arg Val Ser Val Glu Leu Thr Asn Ser Leu	260	265	270
Phe Lys His Asp Pro Ala Ala Trp Glu Ala Ala Gln Ser Met Ile Pro	275	280	285
Ile Asn Glu Pro Tyr Gly Asp Asp Xaa Asp Ala Thr Tyr Arg Pro Met	290	295	300
Tyr Ser Ser Asp Val Pro Leu Asp Pro Leu Glu Met His Met Asp Met	305	310	315
Asp Gly Asp Tyr Pro Ile Asp Thr Tyr Ser Asp Gly Leu Arg Pro Pro	325	330	335
Tyr Pro Thr Ala Asp His Met Leu Ala			

340

345

<210> 1389

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1389

Ser Leu Ile Cys Tyr Val Gln Ser Leu Lys Ala Thr Thr His Phe Phe
1 5 10 15

Xaa Lys Val Asp Ala Phe Ser Ala Val Leu Glu Ser Val Phe Cys Phe
20 25 30

Trp Gln Glu Ser Cys Lys Leu Cys Ile Leu Lys Gln Met Gln Lys Val
35 40 45

Val Leu Cys Lys Thr Phe Val Phe Cys Leu Ser Gln Ile Asn Ile Leu
50 55 60

<210> 1390

<211> 371

<212> PRT

<213> Homo sapiens

<400> 1390

Pro Pro Arg Ala Leu Gly Ser Val Ala Met Glu Asn Gln Val Leu Thr
1 5 10 15

Pro His Val Tyr Trp Ala Gln Arg His Arg Glu Leu Tyr Leu Arg Val
20 25 30

Glu Leu Ser Asp Val Gln Asn Pro Ala Ile Ser Ile Thr Glu Asn Val
35 40 45

Leu His Phe Lys Ala Gln Gly His Gly Ala Lys Gly Asp Asn Val Tyr
50 55 60

Glu Phe His Leu Glu Phe Leu Asp Leu Val Lys Pro Glu Pro Val Tyr

65	70	75	80
Lys Leu Thr Gln Arg Gln Val Asn Ile Thr Val Gln Lys Lys Val Ser	85	90	95
Gln Trp Trp Glu Arg Leu Thr Lys Gln Glu Lys Arg Pro Leu Phe Leu	100	105	110
Ala Pro Asp Phe Asp Arg Trp Leu Asp Glu Ser Asp Ala Glu Met Glu	115	120	125
Leu Arg Ala Lys Glu Glu Glu Arg Leu Asn Lys Leu Arg Leu Glu Ser	130	135	140
Glu Gly Ser Pro Glu Thr Leu Thr Asn Leu Arg Lys Gly Tyr Leu Phe	145	150	155
Met Tyr Asn Leu Val Gln Phe Leu Gly Phe Ser Trp Ile Phe Val Asn	165	170	175
Leu Thr Val Arg Phe Cys Ile Leu Gly Lys Glu Ser Phe Tyr Asp Thr	180	185	190
Phe His Thr Val Ala Asp Met Met Tyr Phe Cys Gln Met Leu Ala Val	195	200	205
Val Glu Thr Ile Asn Ala Ala Ile Gly Val Thr Thr Ser Pro Val Leu	210	215	220
Pro Ser Leu Ile Gln Leu Leu Gly Arg Asn Phe Ile Leu Phe Ile Ile	225	230	235
Phe Gly Thr Met Glu Glu Met Gln Asn Lys Ala Val Val Phe Phe Val	245	250	255
Phe Tyr Leu Trp Ser Ala Ile Glu Ile Phe Arg Tyr Ser Phe Tyr Met	260	265	270
Leu Thr Cys Ile Asp Met Asp Trp Lys Val Leu Thr Trp Leu Arg Tyr	275	280	285
Thr Leu Trp Ile Pro Leu Tyr Pro Leu Gly Cys Leu Ala Glu Ala Val	290	295	300
Ser Val Ile Gln Ser Ile Pro Ile Phe Asn Glu Thr Gly Arg Phe Ser	305	310	315
Phe Thr Leu Pro Tyr Pro Val Lys Ile Lys Val Arg Phe Ser Phe Phe	325	330	335
Leu Gln Ile Tyr Leu Ile Met Ile Phe Leu Gly Leu Tyr Ile Asn Phe			

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          340                      345                      350
Arg His Leu Tyr Lys Gln Arg Arg Arg Arg Tyr Gly Gln Lys Lys Lys
          355                      360                      365
Lys Ile His
          370

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<210> 1391
<211> 365
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 1391
Ala Glu Val Asn Thr Val Lys Tyr Leu Lys Pro Ser Thr Ser Gln Ile
  1                      5                      10                      15
Met Lys Lys Leu Leu Leu Lys Phe Ser Ser Gln Xaa Lys Lys Lys Lys
      20                      25                      30
Ile Lys Arg Glu Ile Lys Ile Leu Glu Asn Leu Arg Gly Gly Pro Asn
      35                      40                      45
Ile Ile Thr Leu Ala Asp Ile Val Lys Asp Pro Val Ser Arg Thr Pro
      50                      55                      60
Ala Leu Val Phe Glu His Val Asn Asn Thr Asp Phe Lys Gln Leu Tyr
  65                      70                      75                      80
Gln Thr Leu Thr Asp Tyr Asp Ile Arg Phe Tyr Met Tyr Glu Ile Leu
      85                      90                      95
Lys Ala Leu Asp Tyr Cys His Ser Met Gly Ile Met His Arg Asp Val
      100                      105                      110
Lys Pro His Asn Val Met Ile Asp His Glu His Arg Lys Leu Arg Leu
      115                      120                      125
Ile Asp Trp Gly Leu Ala Glu Phe Tyr His Pro Gly Gln Glu Tyr Asn
      130                      135                      140
Val Arg Val Ala Ser Arg Tyr Phe Lys Gly Pro Glu Leu Leu Val Asp
  145                      150                      155                      160

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Tyr Gln Met Tyr Asp Tyr Ser Leu Asp Met Trp Ser Leu Gly Cys Met
 165 170 175
 Leu Ala Ser Met Ile Phe Arg Lys Glu Pro Phe Phe His Gly His Asp
 180 185 190
 Asn Tyr Asp Gln Leu Val Arg Ile Ala Lys Val Leu Gly Thr Glu Asp
 195 200 205
 Leu Tyr Asp Tyr Ile Asp Lys Tyr Asn Ile Glu Leu Asp Pro Arg Phe
 210 215 220
 Asn Asp Ile Leu Gly Arg His Ser Arg Lys Arg Trp Glu Arg Phe Val
 225 230 235 240
 His Ser Glu Asn Gln His Leu Val Ser Pro Glu Ala Leu Asp Phe Leu
 245 250 255
 Asp Lys Leu Leu Arg Tyr Asp His Gln Ser Arg Leu Thr Ala Arg Glu
 260 265 270
 Ala Met Glu His Pro Tyr Phe Tyr Thr Val Val Lys Asp Gln Ala Arg
 275 280 285
 Met Gly Ser Ser Ser Met Pro Gly Gly Ser Thr Pro Val Ser Ser Ala
 290 295 300
 Asn Met Met Ser Gly Ile Ser Ser Val Pro Thr Pro Ser Pro Leu Gly
 305 310 315 320
 Pro Leu Ala Gly Ser Pro Val Ile Ala Ala Ala Asn Pro Leu Gly Met
 325 330 335
 Pro Val Gln Leu Pro Leu Ala Leu Ser Ser Asn Gly Pro Ile Cys Leu
 340 345 350
 Leu Met Pro Glu Gln Arg Trp Gly Ser Pro Pro Ser Pro
 355 360 365

<210> 1392

<211> 276

<212> PRT

<213> Homo sapiens

<400> 1392

Thr Met Ala Ala Ser Asp Thr Glu Arg Asp Gly Leu Ala Pro Glu Lys
 1 5 10 15

Thr Ser Pro Asp Arg Asp Lys Lys Lys Glu Gln Ser Glu Val Ser Val

20	25	30
Ser Pro Arg Ala Ser Lys His His Tyr Ser Arg Ser Arg Ser Arg Ser		
35	40	45
Arg Glu Arg Lys Arg Lys Ser Asp Asn Glu Gly Arg Lys His Arg Ser		
50	55	60
Arg Ser Arg Ser Lys Glu Gly Arg Arg His Glu Ser Lys Asp Lys Ser		
65	70	75
Ser Lys Lys His Lys Ser Glu Glu His Asn Asp Lys Glu His Ser Ser		
85	90	95
Asp Lys Gly Arg Glu Arg Leu Asn Ser Ser Glu Asn Gly Glu Asp Arg		
100	105	110
His Lys Arg Lys Glu Arg Lys Ser Ser Arg Gly Arg Ser His Ser Arg		
115	120	125
Ser Arg Ser Arg Glu Arg Arg His Arg Ser Arg Ser Arg Glu Arg Lys		
130	135	140
Lys Ser Arg Ser Arg Ser Arg Glu Arg Lys Lys Ser Arg Ser Arg Ser		
145	150	155
Arg Glu Arg Lys Lys Ser Arg Ser Arg Ser Arg Glu Arg Lys Arg Arg		
165	170	175
Ile Arg Ser Arg Ser Arg Ser Arg Ser Arg His Arg His Arg Thr Arg		
180	185	190
Ser Arg Ser Arg Thr Arg Ser Arg Ser Arg Asp Arg Lys Lys Arg Ile		
195	200	205
Glu Lys Pro Arg Arg Phe Ser Arg Ser Leu Ser Arg Thr Pro Ser Pro		
210	215	220
Pro Pro Phe Arg Gly Arg Asn Thr Ala Met Asp Ala Gln Glu Ala Leu		
225	230	235
Ala Arg Arg Glu Arg Pro Gly Val Ser Leu Ile Val Cys Pro Gly Trp		
245	250	255
Val Thr Gln Cys Asn Leu Met Leu Leu Pro Leu Gly Thr Gln Pro Asp		
260	265	270
Arg Lys Leu Gln		
275		

<210> 1393

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1393

Ala	Arg	Arg	Xaa	Val	Val	Ile	Thr	Ser	Lys	Ser	Gly	Glu	Ile	Leu	Tyr
1				5					10					15	

Arg	Ile	Ser	Pro	Trp	Ala	Lys	Tyr	Val	Val	Arg	Glu	Gly	Asp	Asn	Val
			20					25					30		

Asn	Tyr	Asp	Trp	Ile	His	Trp	Asp	Pro	Glu	His	Ser	Tyr	Glu	Phe	Lys
		35					40					45			

His	Ser	Arg	Pro	Lys	Lys	Pro	Arg	Ser	Leu	Arg	Ile	Tyr	Glu	Ser	His
		50				55					60				

Val	Gly	Ile	Ser	Ser	His	Glu	Gly	Lys	Val	Ala	Ser	Tyr	Lys	His	Phe
65					70					75					80

Thr	Cys	Asn	Val	Leu	Pro	Arg	Ile	Lys	Gly	Leu	Gly	Tyr	Asn	Cys	Ile
			85						90					95	

Gln	Leu	Met	Ala	Ile	Met	Glu	His	Ala	Tyr	Tyr	Ala	Ser	Phe	Gly	Tyr
		100						105					110		

Gln	Ile	Thr	Ser	Phe	Phe	Ala	Ala	Ser	Ser	Arg	Tyr	Gly	Thr	Pro	Glu
		115						120					125		

Glu Leu Gln Glu Leu Val Asp Thr Ala His Xaa Met Gly Ile Ile Val
130 135 140

Leu Leu Asp Val Val Gln Ala His Ala Ser Lys Asn Ser Ser Arg Trp
145 150 155 160

Asp Trp Asn Met Val Trp Met Gly Asp Arg Phe Xaa Val Asn Phe Pro
165 170 175

Phe Leu Gly Xaa
180

<210> 1394

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1394

Ile Leu Thr Tyr Lys Glu Thr Gly Pro Gln Thr Gly Asn Ser Leu Val
1 5 10 15

Gln Ala Ser Ala Arg Arg Lys Asp Thr Met Thr Ala Pro Cys Trp Ala
20 25 30

Gln Pro Gly Ser Leu Ala Lys Cys Leu Leu Glu Ala Val Pro Ala Arg
35 40 45

Gly Leu Gln Gln Gly Asp Ser Leu Pro Ser Gly His Tyr Gln Tyr Xaa
50 55 60

Leu Tyr Leu Glu Val Gly Lys Arg Ser Pro Leu Arg Gln Gln Asp Asn
65 70 75 80

Gly Gln Phe Arg Glu Gly Glu Gly Ser Lys Arg Phe Arg Gly His Arg
85 90 95

Ser Gln Arg Thr Pro Pro Arg Pro Thr Ala Gly Ser Ala Trp Lys Ile
100 105 110

His Leu Leu Gly Thr Phe Trp Gln Pro Asp Gly Ser Asn Ser Pro Leu
115 120 125

Gly Leu Ile Pro Ser Ser Lys Ser Trp Leu Gln Met Ser Leu Ser Ser
130 135 140

Pro Tyr Trp Arg Ala Pro Pro Asp Ser Trp Ala Gln Phe Ile Ser Ser
 145 150 155 160

Pro Phe

<210> 1395

<211> 416

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (412)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (413)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1395

Gln Leu Asp Gly Val Gly Leu Glu Ser Arg Ser Pro Gly Cys Ser Thr
 1 5 10 15

Trp Glu Lys Ala Asp Arg Val Arg Gly Pro Val Ala Gln Arg Ala Val
 20 25 30

Ala Ser Gly Ser Gly Lys Trp Arg Gln Glu Pro Ser Leu His Phe Ala
 35 40 45

Met Ser Phe Leu Ile Asp Ser Ser Ile Met Ile Thr Ser Gln Ile Leu
 50 55 60

Phe Phe Gly Phe Gly Trp Leu Phe Phe Met Arg Gln Leu Phe Lys Asp
 65 70 75 80

Tyr Glu Ile Arg Gln Tyr Val Val Gln Val Ile Phe Ser Val Thr Phe
 85 90 95

Ala Phe Ser Cys Thr Met Phe Glu Leu Ile Ile Phe Glu Ile Leu Gly
 100 105 110

Val Leu Asn Ser Ser Ser Arg Tyr Phe His Trp Lys Met Asn Leu Cys
 115 120 125

Val Ile Leu Leu Ile Leu Val Phe Met Val Pro Phe Tyr Ile Gly Tyr
 130 135 140

Phe Ile Val Ser Asn Ile Arg Leu Leu His Lys Gln Arg Leu Leu Phe
145 150 155 160

Ser Cys Leu Leu Trp Leu Thr Phe Met Tyr Phe Phe Trp Lys Leu Gly
165 170 175

Asp Pro Phe Pro Ile Leu Ser Pro Lys His Gly Ile Leu Ser Ile Glu
180 185 190

Gln Leu Ile Ser Arg Val Gly Val Ile Gly Val Thr Leu Met Ala Leu
195 200 205

Leu Ser Gly Phe Gly Ala Val Asn Cys Pro Tyr Thr Tyr Met Ser Tyr
210 215 220

Phe Leu Arg Asn Val Thr Asp Thr Asp Ile Leu Ala Leu Glu Arg Arg
225 230 235 240

Leu Leu Gln Thr Met Asp Met Ile Ile Ser Lys Lys Lys Arg Met Ala
245 250 255

Met Ala Arg Arg Thr Met Phe Gln Lys Gly Glu Val His Asn Lys Pro
260 265 270

Ser Gly Phe Trp Gly Met Ile Lys Ser Val Thr Thr Ser Ala Ser Gly
275 280 285

Ser Glu Asn Leu Thr Leu Ile Gln Gln Glu Val Asp Ala Leu Glu Glu
290 295 300

Leu Ser Arg Gln Leu Phe Leu Glu Thr Ala Asp Leu Tyr Ala Thr Lys
305 310 315 320

Glu Arg Ile Glu Tyr Ser Lys Thr Phe Lys Gly Lys Tyr Phe Asn Phe
325 330 335

Leu Gly Tyr Phe Phe Ser Ile Tyr Cys Val Trp Lys Ile Phe Met Ala
340 345 350

Thr Ile Asn Ile Val Phe Asp Arg Val Gly Lys Thr Asp Pro Val Thr
355 360 365

Arg Gly Ile Glu Ile Thr Val Asn Tyr Leu Gly Ile Gln Phe Asp Val
370 375 380

Lys Phe Trp Ser Gln His Ile Ser Phe Ile Leu Val Gly Ile Ile Ile
385 390 395 400

Val Thr Ser Ile Arg Gly Leu Leu Ile Thr Leu Xaa Xaa Val Ile Leu
405 410 415

<210> 1396

<211> 71

<212> PRT

<213> Homo sapiens

<400> 1396

Ile Ile Tyr Val His Ile Val Gln Gln Lys Tyr Asn Val Asn His Asn
1 5 10 15

Ile Ile Phe Asn Phe Leu Val Ala Ile Leu Lys Lys Lys Gln Ala Lys
20 25 30

Leu Ile Leu Ile Thr Val Tyr Val Thr Gln Tyr Ile Lys Asn Ile Ile
35 40 45

Ser Thr Cys Asn Gln Tyr Lys Arg Leu Leu Met Lys His Leu Ile Phe
50 55 60

Phe Phe Phe His Thr Lys Ser
65 70

<210> 1397

<211> 204

<212> PRT

<213> Homo sapiens

<400> 1397

Ala Pro Arg Leu Val Val Thr Cys Arg His Val Ser Pro Arg Glu Ala
1 5 10 15

Ala Arg Val Leu Val Arg Ser Thr Thr Pro Lys Ser Val Ala Ile Trp
20 25 30

Gly Arg Val Val Phe Ala Thr Gln Glu Thr Cys Pro Tyr Asp Ile Ala
35 40 45

Val Val Ser Leu Glu Glu Asp Leu Asp Asp Val Pro Ile Pro Val Pro
50 55 60

Ala Glu His Phe His Glu Gly Glu Ala Val Ser Val Val Gly Phe Gly
65 70 75 80

Val Phe Gly Gln Ser Cys Gly Pro Ser Val Thr Ser Gly Ile Leu Ser

85	90	95
Ala Val Val Gln Val Asn Gly Thr Pro Val Met Leu Gln Thr Thr Cys		
100	105	110
Ala Val His Ser Gly Ser Ser Gly Gly Pro Leu Phe Ser Asn His Ser		
115	120	125
Gly Asn Leu Leu Gly Ile Ile Thr Ser Asn Thr Arg Asp Asn Asn Thr		
130	135	140
Gly Ala Thr Tyr Pro His Leu Asn Phe Ser Ile Pro Ile Thr Val Leu		
145	150	155
Gln Pro Ala Leu Gln Gln Tyr Ser Gln Thr Gln Asp Leu Gly Gly Leu		
165	170	175
Arg Glu Leu Asp Arg Ala Ala Glu Pro Val Arg Val Val Trp Arg Leu		
180	185	190
Gln Arg Pro Leu Ala Glu Ala Pro Arg Ser Lys Leu		
195	200	

<210> 1398

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1398

Val Phe Ile Val Phe Asn Ser Val Thr Ser Arg Phe Phe Pro Lys Lys			
1	5	10	15
Phe Leu Xaa Ile Lys Ser Arg Leu Phe Arg Lys Tyr Leu Pro Val Leu			
20	25	30	
His Phe Asn Phe Thr Asn Gln Thr Thr Ala Ile Gln Pro Ile Lys Gln			
35	40	45	
Gln Lys Gln Ser Lys Glu Arg Asp Leu Asp Ile Gly Ile Lys Glu Ser			
50	55	60	
Phe His Phe Ile Ile			
65			

<210> 1399

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1399

Glu Ala Glu Ala Ala Glu Arg Gly Pro Leu His Ala Gly Lys Gln Pro
1 5 10 15

Arg Xaa Pro Gly Gly Gly Ala Arg Trp Pro Cys Cys Ser Ala Phe Lys
20 25 30

Glu Gln Gln Phe Val Ile Ala Gly Val Leu Val Glu Asp Ser Asn Asn
35 40 45

His His Leu Met Leu Glu Ala Ser Xaa Trp Ala Thr Ile Glu Gly Leu
50 55 60

Val Glu Leu Leu Gln Pro Phe Lys Gln Val Ala Glu Met Leu Ser Ala
65 70 75 80

Ser Arg Tyr Pro Thr Ile Ser Met Val Lys Pro Leu Leu His Met Leu
85 90 95

Leu Asn Thr Thr Leu Asn Ile Lys Glu Thr Asp Ser Lys Glu Leu Ser
100 105 110

Met Ala Lys Glu Val Ile Ala Lys Glu Leu Ser Lys Thr Tyr Gln Glu
115 120 125

Thr Pro Glu Ile Asp Met Phe Leu Asn Val Ala Thr Phe Leu Asp Pro
130 135 140

Arg Tyr Lys Arg Leu Pro Phe Leu Ser Ala Phe Glu Arg Gln Gln Val
145 150 155 160

Glu Asn Arg Val Val Glu Glu Ala Lys Gly Cys Trp Thr Arg Ser Lys
165 170 175

Thr Ala Ala Thr Gly Arg Leu Arg Thr Arg Ser Ser Arg Cys Pro Arg
 180 185 190

Ser Leu Pro Ser Arg Ser Ser Cys Gly His Pro Arg Arg Arg Pro Pro
 195 200 205

Ala Ser Ser Thr Thr Cys Trp Pro Arg Ser Ser Ala Arg Gln Ala Ala
 210 215 220

Trp Arg Thr Arg Lys Ser Gly Met Pro Arg Trp Trp Arg Ser
 225 230 235

<210> 1400

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1400

Phe Leu Lys Leu Cys Gly Leu Lys Trp Gln Val Ala Ser Thr Asp Phe
 1 5 10 15

Thr Arg Phe Lys Leu Ile Phe Lys Ser Asn His Trp Arg Asn Arg Tyr
 20 25 30

Thr Phe Val Cys Arg Ile Phe Thr Ser Tyr Asn Ser Thr Arg Lys Val
 35 40 45

Phe Ser Phe Pro Ala Asp Ala Gly Thr Pro Thr Gly Thr Leu Gln Lys
 50 55 60

Asp Ala Ser Pro Asp Cys Thr Asp Gly Arg Trp Lys His Gly Pro Val
 65 70 75 80

Cys Gly Xaa

<210> 1401

<211> 79

<212> PRT

<213> Homo sapiens

<400> 1401

Gly Ala Leu Cys Ala Val Trp Ala Arg Ala Gly Arg Pro Gly Pro Gln
 1 5 10 15
 Asp Val Arg Cys Pro Leu Arg Arg Ala Gly Ala Cys Gly Glu Thr Arg
 20 25 30
 Ala Thr Cys Glu Arg Gly Pro Glu Thr Phe Cys Thr Arg Glu Leu Arg
 35 40 45
 Gly Leu Ser Asn Pro Ala Ser Val Gly Asn Val Ser Glu Thr Gln Gly
 50 55 60
 Glu Trp Pro Gln Pro Phe Val Thr Cys Ser Pro Ala Cys Pro Lys
 65 70 75

<210> 1402

<211> 222

<212> PRT

<213> Homo sapiens

<400> 1402

Pro Ala Asn Gly Leu Leu Phe Gly Gly Leu Arg Ser Arg Glu Leu Arg
 1 5 10 15
 Val Phe Ala Arg Leu Ser Thr Phe Arg Lys Ile Arg Ala Gly Val Trp
 20 25 30
 Glu Val Pro His Ser Thr Gly Gln Arg Pro Leu Asp Ser Arg Gly Asn
 35 40 45
 Leu Gln Leu Trp Val Arg Gly His Leu Ala Leu Val Phe Ala Leu Tyr
 50 55 60
 Arg Ser Cys Gly Pro Arg Gly Ala Ser Gly Glu Asp Val Ser Gly Arg
 65 70 75 80
 Gly Phe Pro Ala Phe Cys Leu Gly Gln Trp Gly Cys Ser Cys Leu Ser
 85 90 95
 Phe Ser Pro Thr Pro Trp Thr Val Leu Gly Cys Trp Cys Thr Trp Leu
 100 105 110
 Ala His Gly Gly Gln Arg Ala Glu Asn Ala Thr Ala Trp Leu Leu Val
 115 120 125
 Pro Phe Asp Gln Glu Thr Gln Glu Glu Thr Pro Gln Ser Ala Glu Arg
 130 135 140
 Pro Pro Gly Ser Leu Ala His Ser Arg Ser Gly Arg Asp Gly Arg Val

145 150 155 160
 Ser Ser Leu Ser Ser Gly Ile Arg Lys Gly Met Val Ser Thr Pro His
 165 170 175
 Cys Gly Gly Phe Arg Gln Gly Ser Tyr Cys Leu Leu Cys Leu Gly Phe
 180 185 190
 Pro Ile Trp Lys Met Gly Ala Gly Val Leu Thr Tyr Leu Arg Trp Asn
 195 200 205
 Gly Glu Gln Gly Thr Cys Arg Ser Pro Ser Glu Asn Val Met
 210 215 220

<210> 1403

<211> 139

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1403

Arg Ala Thr Leu Glu His Pro Ala Leu Val Pro Leu Gln Pro Ala Glu
 1 5 10 15
 Met Val Glu Leu Met Phe Pro Leu Leu Leu Leu Leu Pro Phe Leu
 20 25 30
 Leu Tyr Met Ala Ala Pro Gln Ile Arg Lys Met Leu Ser Ser Gly Val
 35 40 45
 Cys Thr Ser Thr Val Gln Leu Pro Gly Lys Val Val Val Val Thr Gly
 50 55 60
 Ala Asn Thr Gly Ile Gly Lys Glu Thr Ala Lys Glu Leu Ala Gln Arg
 65 70 75 80
 Gly Ala Arg Val Tyr Leu Ala Cys Arg Asp Val Glu Lys Gly Glu Leu
 85 90 95
 Val Ala Lys Glu Ile Gln Thr Thr Thr Gly Asn Gln Gln Val Leu Val
 100 105 110
 Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Xaa Ala Lys
 115 120 125

Gly Phe Leu Ala Glu Glu Lys His Leu His Val
130 135

<210> 1404

<211> 285

<212> PRT

<213> Homo sapiens

<400> 1404

Glu Glu Gln His Ser Met Leu Gly Ser Gly Phe Lys Ala Glu Arg Leu
1 5 10 15

Arg Val Asn Leu Arg Leu Val Ile Asn Arg Leu Lys Leu Leu Glu Lys
20 25 30

Lys Lys Thr Glu Leu Ala Gln Lys Ala Arg Lys Glu Ile Ala Asp Tyr
35 40 45

Leu Ala Ala Gly Lys Asp Glu Arg Ala Arg Ile Arg Val Glu His Ile
50 55 60

Ile Arg Glu Asp Tyr Leu Val Glu Ala Met Glu Ile Leu Glu Leu Tyr
65 70 75 80

Cys Asp Leu Leu Leu Ala Arg Phe Gly Leu Ile Gln Ser Met Lys Glu
85 90 95

Leu Asp Ser Gly Leu Ala Glu Ser Val Ser Thr Leu Ile Trp Ala Ala
100 105 110

Pro Arg Leu Gln Ser Glu Val Ala Glu Leu Lys Ile Val Ala Asp Gln
115 120 125

Leu Cys Ala Lys Tyr Ser Lys Glu Tyr Gly Lys Leu Cys Arg Thr Asn
130 135 140

Gln Ile Gly Thr Val Asn Asp Arg Leu Met His Lys Leu Ser Val Glu
145 150 155 160

Ala Pro Pro Lys Ile Leu Val Glu Arg Tyr Leu Ile Glu Ile Ala Lys
165 170 175

Asn Tyr Asn Val Pro Tyr Glu Pro Asp Ser Val Val Met Ala Glu Ala
180 185 190

Pro Pro Gly Val Glu Thr Asp Leu Ile Asp Val Gly Phe Thr Asp Asp
195 200 205

Val Lys Lys Gly Gly Pro Gly Arg Gly Gly Ser Gly Gly Phe Thr Ala

210	215	220
Pro Val Gly Gly Pro Asp Gly Thr Val Pro Asp Ala His Ala His Ala		
225	230	235 240
Tyr Ala Ile Cys Lys Tyr Ala Phe Leu Ile Ser Thr Ala Lys Gly Thr		
	245	250 255
Ile Arg Phe Gln Trp Thr Ala Asn Gly Asp Leu Ser Gly Leu Ser Gln		
	260	265 270
Tyr Ser Ser Thr Ser Asp Thr Ser Asn Ser Pro Ile Val		
	275	280 285

<210> 1405

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1405

Arg Val Thr Phe Asn Asn Leu Ser Ile Ser Gly Glu Leu Glu Ala Val		
1	5	10 15
Gln Asn Met Val Ser Thr Val Glu Cys Ala Leu Lys His Val Ser Asp		
	20	25 30
Trp Leu Asp Glu Thr Asn Lys Gly Thr Lys Thr Glu Gly Glu Thr Glu		
	35	40 45
Val Lys Lys Asp Glu Ala Gly Glu Asn Tyr Ser Lys Asp Gln Gly Gly		
	50	55 60
Arg Thr Leu Cys Gly Val Met Arg Ile Gly Leu Val Ala Lys Gly Leu		
	65	70 75 80
Leu Ile Lys Asp Asp Met Asp Leu Glu Leu Val Leu Met Cys Lys Asp		
	85	90 95
Lys Pro Thr Glu Thr Leu Leu Asn Thr Val Lys Asp Asn Leu Pro Ile		
	100	105 110
Xaa Ile Gln Lys Leu Thr Glu Glu Lys Tyr Gln Val Glu Gln Cys Val		
	115	120 125

Asn Glu Ala Ser Ile Ile Ile Arg Asn Thr Lys Glu Pro Thr Leu Thr
130 135 140

Leu Lys Val Ile Leu Thr Ser Pro Leu Ile Arg Asp Glu Leu Glu Lys
145 150 155 160

Lys Asp Gly Glu Asn Val Ser Met Lys Asp Pro Pro Asp Leu Leu Asp
165 170 175

Arg Gln Lys Cys Leu Asn Ala Leu Ala Ser Leu Arg His Ala Lys Trp
180 185 190

Phe Gln Ala Arg
195

<210> 1406

<211> 329

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (312)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1406

Pro Pro Arg Pro Leu Ser Ala Arg Lys Leu Trp Pro Pro Leu Pro Pro
1 5 10 15

Pro Pro Thr Arg Thr Pro Ala Glu Pro Pro Arg Pro Arg Gly Arg Asn
20 25 30

Pro Ala Ser Asn Asn Ser Asn Ser Leu Asn Val Asn Asn Gly Val Pro
35 40 45

Gly Gly Ala Ala Ala Ala Ser Ser Ala Thr Val Ala Ala Ala Ser Ala
50 55 60

Thr Thr Ala Ala Ser Ser Ser Leu Ala Thr Pro Glu Leu Gly Ser Ser
65 70 75 80

Leu Lys Lys Lys Lys Arg Leu Ser Gln Ser Asp Glu Asp Val Ile Arg
85 90 95

Leu Ile Gly Gln His Leu Asn Gly Leu Gly Leu Asn Gln Thr Val Asp
100 105 110

Leu Leu Met Gln Glu Ser Gly Cys Arg Leu Glu His Pro Ser Ala Thr
115 120 125

Lys Phe Arg Asn His Val Met Glu Gly Asp Trp Asp Lys Ala Glu Asn
130 135 140

Asp Leu Asn Glu Leu Lys Pro Leu Val His Ser Pro His Ala Ile Val
145 150 155 160

Val Arg Gly Ala Leu Glu Ile Ser Gln Thr Leu Leu Gly Ile Ile Val
165 170 175

Arg Met Lys Phe Leu Leu Leu Gln Gln Lys Tyr Leu Glu Tyr Leu Glu
180 185 190

Asp Gly Lys Val Leu Glu Ala Leu Gln Val Leu Arg Cys Glu Leu Thr
195 200 205

Pro Leu Lys Tyr Asn Thr Glu Arg Ile His Val Leu Ser Gly Tyr Leu
210 215 220

Met Cys Ser His Ala Glu Asp Leu Arg Ala Lys Ala Glu Trp Glu Gly
225 230 235 240

Lys Gly Thr Ala Ser Arg Ser Lys Leu Leu Asp Lys Leu Gln Thr Tyr
245 250 255

Leu Pro Pro Ser Val Met Leu Pro Pro Arg Arg Leu Gln Thr Leu Leu
260 265 270

Arg Gln Ala Val Glu Leu Gln Arg Asp Arg Cys Leu Tyr His Asn Thr
275 280 285

Lys Leu Asp Asn Asn Leu Asp Ser Val Ser Leu Leu Ile Asp His Val
290 295 300

Cys Ser Lys Arg Gln Phe Pro Xaa Leu Tyr Ala Ala Asp Thr Tyr Gly
305 310 315 320

Ser Ile Val Met Asn Phe Gly Ser Cys
325

<210> 1407

<211> 713

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (280)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (282)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (322)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1407

Ser	Pro	Gly	Pro	Gln	Pro	His	Ser	Xaa	Xaa	Arg	Ser	Pro	Pro	Pro	Pro
1				5					10					15	

Pro	Leu	Arg	Pro	Pro	Pro	Met	Lys	Arg	Leu	Pro	Leu	Leu	Val	Val	Phe
			20					25					30		

Ser	Thr	Leu	Leu	Asn	Cys	Ser	Tyr	Thr	Gln	Asn	Cys	Thr	Lys	Thr	Pro
		35					40					45			

Cys	Leu	Pro	Asn	Ala	Lys	Cys	Glu	Ile	Arg	Asn	Gly	Ile	Glu	Ala	Cys
	50					55					60				

Tyr	Cys	Asn	Met	Gly	Phe	Ser	Gly	Asn	Gly	Val	Thr	Ile	Cys	Glu	Asp
65					70					75					80

Asp	Asn	Glu	Cys	Gly	Asn	Leu	Thr	Gln	Ser	Cys	Gly	Glu	Asn	Ala	Asn
				85					90					95	

Cys	Thr	Asn	Thr	Glu	Gly	Ser	Tyr	Tyr	Cys	Met	Cys	Val	Pro	Gly	Phe
			100					105						110	

Arg	Ser	Ser	Ser	Asn	Gln	Asp	Arg	Phe	Ile	Thr	Asn	Asp	Gly	Thr	Val
			115				120					125			

Cys Ile Glu Asn Val Xaa Ala Asn Cys His Leu Asp Asn Val Cys Ile
 130 135 140

Ala Ala Asn Ile Asn Lys Thr Leu Thr Lys Ile Arg Ser Ile Lys Glu
 145 150 155 160

Pro Val Ala Leu Leu Gln Glu Val Tyr Arg Asn Ser Val Thr Asp Leu
 165 170 175

Ser Pro Thr Asp Ile Ile Thr Tyr Ile Glu Ile Leu Ala Glu Ser Ser
 180 185 190

Ser Leu Leu Gly Tyr Lys Asn Asn Thr Ile Ser Ala Lys Asp Thr Leu
 195 200 205

Ser Asn Ser Thr Leu Thr Glu Phe Val Lys Thr Val Asn Asn Phe Val
 210 215 220

Gln Arg Asp Thr Phe Val Val Trp Asp Lys Leu Ser Val Asn His Arg
 225 230 235 240

Arg Thr His Leu Thr Lys Leu Met His Thr Val Glu Gln Ala Thr Leu
 245 250 255

Arg Ile Ser Gln Ser Phe Gln Lys Thr Thr Glu Phe Asp Thr Asn Ser
 260 265 270

Thr Asp Ile Ala Leu Lys Val Xaa Phe Xaa Asp Ser Tyr Asn Met Lys
 275 280 285

His Ile His Pro His Met Asn Met Asp Gly Asp Tyr Ile Asn Ile Phe
 290 295 300

Pro Lys Arg Lys Ala Ala Tyr Asp Ser Asn Gly Asn Val Ala Val Ala
 305 310 315 320

Phe Xaa Tyr Tyr Lys Ser Ile Gly Pro Leu Leu Ser Ser Ser Asp Asn
 325 330 335

Phe Leu Leu Lys Pro Gln Asn Tyr Asp Asn Ser Glu Glu Glu Glu Arg
 340 345 350

Val Ile Ser Ser Val Ile Ser Val Ser Met Ser Ser Asn Pro Pro Thr
 355 360 365

Leu Tyr Glu Leu Glu Lys Ile Thr Phe Thr Leu Ser His Arg Lys Val
 370 375 380

Thr Asp Arg Tyr Arg Ser Leu Cys Ala Phe Trp Asn Tyr Ser Pro Asp
 385 390 395 400

Thr Met Asn Gly Ser Trp Ser Ser Glu Gly Cys Glu Leu Thr Tyr Ser
 405 410 415

Asn Glu Thr His Thr Ser Cys Arg Cys Asn His Leu Thr His Phe Ala
 420 425 430

Ile Leu Met Ser Ser Gly Pro Ser Ile Gly Ile Lys Asp Tyr Asn Ile
 435 440 445

Leu Thr Arg Ile Thr Gln Leu Gly Ile Ile Ile Ser Leu Ile Cys Leu
 450 455 460

Ala Ile Cys Ile Phe Thr Phe Trp Phe Phe Ser Glu Ile Gln Ser Thr
 465 470 475 480

Arg Thr Thr Ile His Lys Asn Leu Cys Cys Ser Leu Phe Leu Ala Glu
 485 490 495

Leu Val Phe Leu Val Gly Ile Asn Thr Asn Thr Asn Lys Leu Phe Cys
 500 505 510

Ser Ile Ile Ala Gly Leu Leu His Tyr Phe Phe Leu Ala Ala Phe Ala
 515 520 525

Trp Met Cys Ile Glu Gly Ile His Leu Tyr Leu Ile Val Val Gly Val
 530 535 540

Ile Tyr Asn Lys Gly Phe Leu His Lys Asn Phe Tyr Ile Phe Gly Tyr
 545 550 555 560

Leu Ser Pro Ala Val Val Val Gly Phe Ser Ala Ala Leu Gly Tyr Arg
 565 570 575

Tyr Tyr Gly Thr Thr Lys Val Cys Trp Leu Ser Thr Glu Asn Asn Phe
 580 585 590

Ile Trp Ser Phe Ile Gly Pro Ala Cys Leu Ile Ile Leu Val Asn Leu
 595 600 605

Leu Ala Phe Gly Val Ile Ile Tyr Lys Val Phe Arg His Thr Ala Gly
 610 615 620

Leu Lys Pro Glu Val Ser Cys Phe Glu Asn Ile Arg Ser Cys Ala Arg
 625 630 635 640

Gly Ala Leu Ala Leu Leu Phe Leu Leu Gly Thr Thr Trp Ile Phe Gly
 645 650 655

Val Leu His Val Val His Ala Ser Val Val Thr Ala Tyr Leu Phe Thr
 660 665 670

Val Ser Asn Ala Phe Gln Gly Met Phe Ile Phe Leu Phe Leu Cys Val
675 680 685

Leu Ser Arg Lys Ile Gln Glu Glu Tyr Tyr Arg Leu Phe Lys Asn Val
690 695 700

Pro Cys Cys Phe Gly Cys Leu Ser Cys
705 710

<210> 1408

<211> 336

<212> PRT

<213> Homo sapiens

<400> 1408

Gln Arg Gly His Gln Gly Cys Arg Arg Ala Arg Asn Cys Arg Val Gln
1 5 10 15

His Pro Val Cys Ser Arg Gly Arg Asp Ser Gly Leu Tyr His Leu Pro
20 25 30

His Pro Gln Pro Val Pro Glu Asn Thr Trp Leu Tyr Gln Ala Leu Arg
35 40 45

Glu Gly Thr Arg Val Gln Ser Val Glu Gln Ile Arg Glu Val Ala Ser
50 55 60

Gly Ala Ala Arg Ile Arg Gly Glu Thr Leu Gly Leu Ile Gly Phe Gly
65 70 75 80

Arg Thr Gly Gln Ala Val Ala Val Arg Ala Lys Ala Phe Gly Phe Ser
85 90 95

Val Ile Phe Tyr Asp Pro Tyr Leu Gln Asp Gly Ile Glu Arg Ser Leu
100 105 110

Gly Val Gln Arg Val Tyr Thr Leu Gln Asp Leu Leu Tyr Gln Ser Asp
115 120 125

Cys Val Ser Leu His Cys Asn Leu Asn Glu His Asn His His Leu Ile
130 135 140

Asn Asp Phe Thr Ile Lys Gln Met Arg Gln Gly Ala Phe Leu Val Asn
145 150 155 160

Ala Ala Arg Gly Gly Leu Val Asp Glu Lys Ala Leu Ala Gln Ala Leu
165 170 175

Lys Glu Gly Arg Ile Arg Gly Ala Ala Leu Asp Val His Glu Ser Glu

180	185	190
Pro Phe Ser Phe Ala Gln Gly	Pro Leu Lys Asp Ala	Pro Asn Leu Ile
195	200	205
Cys Thr Pro His Thr Ala Trp Tyr Ser Glu Gln Ala Ser Leu Glu Met		
210	215	220
Arg Glu Ala Ala Ala Thr Glu Ile Arg Arg Ala Ile Thr Gly Arg Ile		
225	230	235 240
Pro Glu Ser Leu Arg Asn Cys Val Asn Lys Glu Phe Phe Val Thr Ser		
245	250	255
Ala Pro Trp Ser Val Ile Asp Gln Gln Ala Ile His Pro Glu Leu Asn		
260	265	270
Gly Ala Thr Tyr Arg Tyr Pro Pro Gly Ile Val Gly Val Ala Pro Gly		
275	280	285
Gly Leu Pro Ala Ala Met Glu Gly Ile Ile Pro Gly Gly Ile Pro Val		
290	295	300
Thr His Asn Leu Pro Thr Val Ala His Pro Ser Gln Ala Pro Ser Pro		
305	310	315 320
Asn Gln Pro Thr Lys His Gly Asp Asn Arg Glu His Pro Asn Glu Gln		
325	330	335

<210> 1409

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1409

Glu Ala Glu Glu Asp Thr Ser Glu Arg Ser Glu Glu Lys Arg Ser Val

1 5 10 15
Asn Cys Trp Asp Leu Gly Asp Gln Val Gln Gly Gly Glu Tyr Lys Leu
20 25 30
Ser Leu Phe Gly Phe Ala Ile Leu Gly Leu Thr Lys Pro Cys Ser Ile
35 40 45
Ser Ser Ile Leu Gly Asn Asn Leu Leu Arg Trp Ala Phe Ile Phe Cys
50 55 60
Phe Pro Glu Leu Glu Ile Ser Ile Xaa Xaa Lys Leu
65 70 75

<210> 1410

<211> 236

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1410

His Ala Ala Ser Thr Thr Cys Pro Glu Gln Met Asp Cys Ser Pro Thr
1 5 10 15
Asp Ser Ser Ser Ala Ser Pro Gly Ala Ser Thr Thr Ser Thr Pro Gly
20 25 30
Ala Ser Pro Ala Pro Arg Ser Arg Lys Pro Gly Ala Val Ile Glu Ser
35 40 45

Phe Val Asn His Ala Pro Gly Val Phe Ser Gly Thr Phe Ser Gly Thr
50 55 60

Leu His Pro Asn Cys Gln Asp Ser Ser Gly Arg Pro Arg Arg Asp Ile
65 70 75 80

Gly Thr Ile Leu Gln Ile Leu Asn Asp Leu Leu Ser Ala Thr Arg His
85 90 95

Tyr Gln Gly Met Pro Pro Ser Leu Ala Gln Leu Arg Cys His Ala Gln
100 105 110

Cys Ser Pro Ala Ser Pro Ala Pro Asp Leu Ala Pro Arg Thr Thr Ser
115 120 125

Cys Glu Lys Leu Thr Ala Ala Pro Ser Ala Ser Leu Leu Gln Gly Gln
130 135 140

Ser Gln Ile Arg Met Cys Lys Pro Pro Gly Asp Arg Xaa Ser Ala Asp
145 150 155 160

Arg Lys Pro Arg His Ala Xaa Lys Val Glu Arg Leu Gln Leu Leu Leu
165 170 175

His Glu Lys Arg Xaa Ser Xaa Lys Gly Pro Ala Gly Pro Arg Val Ser
180 185 190

Val Pro Leu Val Thr Gln Pro Gln Gly Gly Arg Ser Asp Ser Ser Ser
195 200 205

Ser Gly Gly Gly Gly Thr Gln Ala Gln Ala Ser Gly Leu Gly Leu Asp
210 215 220

Phe Glu Glu Leu Arg Met Glu Ala Arg Ser Gln Pro
225 230 235

<210> 1411

<211> 280

<212> PRT

<213> Homo sapiens

<400> 1411

Asn Trp Gln Cys Cys Val Lys Thr Met Val Tyr His His Met Thr Glu
1 5 10 15

Glu Glu Arg Phe Glu Val Asp Gln Leu Gln Gly Leu Arg Asn Ser Val
20 25 30

Arg Met Glu Leu Gln Asp Leu Glu Leu Gln Leu Glu Glu Arg Leu Leu

35	40	45	
Gly Leu Glu Glu Gln Leu Arg Ala Val Arg Met Pro Ser Pro Phe Arg			
50	55	60	
Ser Ser Ala Leu Met Gly Met Cys Gly Ser Arg Ser Ala Asp Asn Leu			
65	70	75	80
Ser Cys Pro Ser Pro Leu Asn Val Met Glu Pro Val Thr Glu Leu Met			
85	90	95	
Gln Glu Gln Ser Tyr Leu Lys Ser Glu Leu Gly Leu Gly Leu Gly Glu			
100	105	110	
Met Gly Phe Glu Ile Pro Pro Gly Glu Ser Ser Glu Ser Val Phe Ser			
115	120	125	
Gln Ala Thr Ser Glu Ser Ser Ser Val Cys Ser Gly Pro Ser His Ala			
130	135	140	
Asn Arg Arg Thr Gly Val Pro Ser Thr Ala Ser Val Gly Lys Ser Lys			
145	150	155	160
Thr Pro Leu Val Ala Arg Lys Lys Val Phe Arg Ala Ser Val Ala Leu			
165	170	175	
Thr Pro Thr Ala Pro Ser Arg Thr Gly Ser Val Gln Thr Pro Pro Asp			
180	185	190	
Leu Glu Ser Ser Glu Glu Val Asp Ala Ala Glu Gly Ala Pro Glu Val			
195	200	205	
Val Gly Pro Lys Ser Glu Val Glu Glu Gly His Gly Lys Leu Pro Ser			
210	215	220	
Met Pro Ala Ala Glu Glu Met His Lys Asn Val Glu Gln Asp Glu Leu			
225	230	235	240
Gln Gln Val Ile Arg Glu Ile Lys Glu Ser Ile Val Gly Glu Ile Arg			
245	250	255	
Arg Glu Ile Val Ser Gly Leu Leu Ala Ala Val Ser Ser Ser Lys Ala			
260	265	270	
Ser Asn Ser Lys Gln Asp Tyr His			
275	280		

<210> 1412

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1412

Pro	Gln	His	Thr	Thr	Pro	Pro	Pro	Thr	Glu	Thr	Gly	Thr	Ser	Gly	Leu
1				5					10					15	

Ser	Ser	Gly	Val	Ser	Gly	Ser	Thr	Thr	Ala	Ala	Ser	Ser	Pro	Xaa	Gly
		20					25						30		

Leu	Val	Glu	Arg	Glu	Gly	Val	Val	Leu	Val	Phe	Gly	Pro	Leu	Thr	Ala
		35				40						45			

Asp	Ser	Gln	Glu	Val	Leu	Arg	Arg	Ala	Trp	His	Trp	Ala	Gln	Arg	Leu
50						55					60				

Gln	Asp	Tyr	Cys	Ala	Thr	Gln	Pro	Ala	Leu	Phe	His	Val	Gly	Phe	Pro
65					70					75					80

Val	Ser	Leu	Ile	Asp	His	Glu	Gly	Phe	Gln	Val	Cys	Xaa	Asp	Ser	Xaa
				85					90					95	

<210> 1413

<211> 172

<212> PRT

<213> Homo sapiens

<400> 1413

Phe	Ser	Val	Phe	Val	Leu	Tyr	Ser	Leu	Arg	Asn	Ala	Ser	Gly	Leu	Thr
1				5					10					15	

Ala Ala Asp Ile Ala Gln Thr Gln Gly Phe Gln Glu Cys Ala Gln Phe
20 25 30

Leu Leu Asn Leu Gln Asn Cys His Leu Asn His Phe Tyr Asn Asn Gly
35 40 45

Ile Leu Asn Gly Gly His Gln Asn Val Phe Pro Asn His Ile Ser Val
50 55 60

Gly Thr Asn Arg Lys Arg Cys Leu Glu Asp Ser Glu Asp Phe Gly Val
65 70 75 80

Lys Lys Ala Arg Thr Glu Ala Gln Ser Leu Asp Ser Ala Val Pro Leu
85 90 95

Thr Asn Gly Asp Thr Glu Asp Asp Ala Asp Lys Met His Val Asp Arg
100 105 110

Glu Phe Ala Val Val Thr Gly Gly Ser Gly Gln Phe Pro Val Ser Cys
115 120 125

Asn Asn Asn Pro Met Val Glu Asp Thr Lys Gln Gln Glu Ser Gly Ser
130 135 140

Val Gly Pro Lys Glu Ile Glu Ile Tyr Thr Val Ser Ala Met Gln Thr
145 150 155 160

Pro Cys Arg Cys Arg Asn Gln Tyr Ala Tyr Tyr Phe
165 170

<210> 1414

<211> 264

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1414

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Leu Cys Ala Pro Arg Ser Pro Arg Pro Gly Thr Gly Asp Ala Ala Pro
 1             5             10             15

Pro Ser Glu Pro Xaa Ala Ser Ala Ser Gly Thr Asp Leu Leu Gly Trp
          20             25             30

Leu Ile Lys Glu Glu Ala Ala Ala Met Ser Ala Val Gly Xaa Ala Thr
          35             40             45

Pro Tyr Leu His His Pro Gly Asp Ser His Ser Gly Arg Val Ser Phe
          50             55             60

Leu Gly Ala Gln Leu Pro Pro Glu Val Ala Ala Met Ala Arg Leu Leu
 65             70             75             80

Gly Asp Leu Asp Xaa Ser Thr Phe Arg Lys Leu Leu Lys Phe Val Val
          85             90             95

Ser Ser Leu Gln Gly Glu Asp Cys Arg Glu Xaa Leu Gln Arg Leu Gly
          100            105            110

Val Ser Ala Asn Leu Pro Glu Glu Gln Leu Gly Ala Leu Leu Ala Gly
          115            120            125

Met His Thr Leu Leu Gln Gln Ala Leu Arg Leu Pro Pro Thr Ser Leu
          130            135            140

Lys Pro Asp Thr Phe Arg Asp Gln Leu Gln Glu Leu Cys Ile Pro Gln
145            150            155            160

Asp Leu Val Gly Asp Leu Ala Ser Val Val Phe Gly Xaa Pro Ala Ala
          165            170            175

Leu Leu Asp Ser Val Ala Gln Gln Gln Gly Ala Trp Leu Pro His Val
          180            185            190

Ala Asp Phe Arg Trp Arg Val Asp Val Ala Ile Ser Thr Ser Ala Leu
          195            200            205

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Ala Arg Ser Leu Gln Pro Ser Val Leu Met Gln Leu Lys Leu Ser Asp
 210 215 220

Gly Ser Ala Tyr Arg Phe Glu Val Pro Thr Ala Lys Phe Gln Glu Leu
 225 230 235 240

Arg Tyr Ser Val Ala Leu Val Leu Lys Glu Met Ala Asp Leu Glu Lys
 245 250 255

Arg Cys Glu Arg Arg Leu Gln Asp
 260

<210> 1415
 <211> 579
 <212> PRT
 <213> Homo sapiens

<400> 1415

Ala Ala Asp Arg Gly Arg Gly Pro Gly Ala His Arg Pro Ile Ser Gly
 1 5 10 15

Asn Met Ala Thr Glu His Val Asn Gly Asn Gly Thr Glu Glu Pro Met
 20 25 30

Asp Thr Thr Ser Ala Val Ile His Ser Glu Asn Phe Gln Thr Leu Leu
 35 40 45

Asp Ala Gly Leu Pro Gln Lys Val Ala Glu Lys Leu Asp Glu Ile Tyr
 50 55 60

Val Ala Gly Leu Val Ala His Ser Asp Leu Asp Glu Arg Ala Ile Glu
 65 70 75 80

Ala Leu Lys Glu Phe Asn Glu Asp Gly Ala Leu Ala Val Leu Gln Gln
 85 90 95

Phe Lys Asp Ser Asp Leu Ser His Val Gln Asn Lys Ser Ala Phe Leu
 100 105 110

Cys Gly Val Met Lys Thr Tyr Arg Gln Arg Glu Lys Gln Gly Thr Lys
 115 120 125

Val Ala Asp Ser Ser Lys Gly Pro Asp Glu Ala Lys Ile Lys Ala Leu
 130 135 140

Leu Glu Arg Thr Gly Tyr Thr Leu Asp Val Thr Thr Gly Gln Arg Lys
 145 150 155 160

Tyr Gly Gly Pro Pro Pro Asp Ser Val Tyr Ser Gly Gln Gln Pro Ser

435 440 445
Tyr Tyr Tyr Gly Pro Pro His Met Pro Pro Pro Thr Arg Gly Arg Gly
450 455 460
Arg Gly Gly Arg Gly Gly Tyr Gly Tyr Pro Pro Asp Tyr Tyr Gly Tyr
465 470 475 480
Glu Asp Tyr Tyr Asp Tyr Tyr Gly Tyr Asp Tyr His Asn Tyr Arg Gly
485 490 495
Gly Tyr Glu Asp Pro Tyr Tyr Gly Tyr Glu Asp Phe Gln Val Gly Ala
500 505 510
Arg Gly Arg Gly Gly Arg Gly Ala Arg Gly Ala Ala Pro Ser Arg Gly
515 520 525
Arg Gly Ala Ala Pro Pro Arg Gly Arg Ala Gly Tyr Ser Gln Arg Gly
530 535 540
Gly Pro Gly Ser Ala Arg Gly Val Arg Gly Ala Arg Gly Gly Ala Gln
545 550 555 560
Gln Gln Arg Gly Arg Gly Gln Gly Lys Gly Val Glu Ala Gly Pro Asp
565 570 575
Leu Leu Gln

<210> 1416

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (230)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1416

Ser Thr His Ala Ser Ala His Ala Ser Glu Pro Gly Gln Gly Gly Trp
1 5 10 15

Pro Glu Val Pro Ala Glu Gly Ala Ser Arg Pro Cys Ala Ala Val Pro
20 25 30

Gly Gly Gln Arg Gly Cys Pro Ala Cys Pro Leu Ala Gly Glu Arg Glu
35 40 45

Leu Thr His Leu Leu Leu Pro Ala Ser Glu Gly Asp Thr Glu Pro Gln
50 55 60

Val Thr Pro His His Gln Arg Arg Cys Leu Cys Leu Ser Asp Lys Tyr
65 70 75 80

Ser Gln Ala Cys His Pro Leu Gly Ser Lys Val Arg Arg Cys Arg Lys
85 90 95

Pro Gly Pro Arg Asp Arg Gln Leu Thr Arg Val Asp Lys Ser Pro Glu
100 105 110

Met Trp Cys Ile Val Leu Phe Ser Leu Leu Ala Trp Val Tyr Ala Glu
115 120 125

Pro Thr Met Tyr Gly Glu Ile Leu Ser Pro Asn Tyr Pro Gln Ala Tyr
130 135 140

Pro Ser Glu Val Glu Lys Ser Trp Asp Ile Glu Val Pro Glu Gly Tyr
145 150 155 160

Gly Ile His Leu Tyr Phe Thr His Leu Asp Ile Glu Leu Ser Glu Asn
165 170 175

Cys Ala Tyr Asp Ser Val Gln Ile Ile Ser Gly Asp Thr Glu Glu Gly
180 185 190

Arg Leu Cys Xaa Gln Arg Ser Ser Asn Asn Pro Xaa Leu Gln Leu Trp
195 200 205

Lys Ser Ser Lys Ser His Thr Thr Asn Ser Lys Gly Gly Asn Pro Leu
210 215 220

Phe Phe Leu Lys Lys Xaa
225 230

<210> 1417

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1417

Ala	Leu	Pro	Val	Met	Thr	Ala	Ala	Gly	Thr	Gly	Trp	Pro	Glu	Ala	Gly
1				5					10					15	
Xaa	Leu	Pro	Glu	Val	Met	Gly	Asp	Gly	Leu	Ala	Asn	Gln	Ile	Asn	Asn
			20					25					30		
Pro	Glu	Val	Glu	Val	Asp	Ile	Thr	Lys	Pro	Asp	Met	Thr	Ile	Arg	Gln
		35					40					45			
Gln	Ile	Met	Gln	Leu	Lys	Ile	Met	Thr	Asn	Arg	Leu	Arg	Ser	Leu	Thr
	50					55					60				
Thr	Ala	Thr	Thr	Trp	Thr	Ser	Arg	Thr	Pro	Xaa	Thr	Thr	Ala	Ala	Ala
65					70					75					80
Arg	Ala	Ala	Val	Met	Ala	Val	Trp	Met	Thr	Ser	Ala	Ala	Gly	Arg	Ser
				85					90					95	
Ala	Gly	Arg	Ala	Pro	Ala	Pro	Gly	Arg	Pro						
			100						105						

<210> 1418

<211> 258

<212> PRT

<213> Homo sapiens

<400> 1418

Gly	His	Leu	Leu	Leu	Cys	Ala	Trp	Gly	Pro	Gly	Gly	Pro	Gly	Pro	Leu
1				5					10					15	
Gly	Pro	Ser	Glu	Glu	Asn	Phe	Asp	Met	Glu	Ala	Phe	Thr	Glu	Met	Met
			20					25					30		
Glu	Ala	Tyr	Val	Pro	Gly	Phe	Ala	His	Ile	Pro	Arg	Gly	Thr	Ile	Gly
		35					40						45		

Asp Met Met Gln Lys Leu Ser Gly Gln Leu Ser Asp Ala Arg Asn Lys
50 55 60

Glu Asn Leu Gln Pro Gln Ser Ser Gly Val Gln Gly Gln Val Pro Ile
65 70 75 80

Ser Pro Glu Pro Leu Gln Arg Pro Glu Met Leu Lys Glu Glu Thr Arg
85 90 95

Ser Ser Ala Ala Ala Ala Ala Asp Thr Gln Asp Glu Ala Thr Gly Ala
100 105 110

Glu Glu Glu Leu Leu Pro Gly Val Asp Val Leu Leu Glu Val Phe Pro
115 120 125

Thr Cys Ser Val Glu Gln Ala Gln Trp Val Leu Ala Lys Ala Arg Gly
130 135 140

Asp Leu Glu Glu Ala Val Gln Met Leu Val Glu Gly Lys Glu Glu Gly
145 150 155 160

Pro Ala Ala Trp Glu Gly Pro Asn Gln Asp Leu Pro Arg Arg Leu Arg
165 170 175

Gly Pro Gln Lys Asp Glu Leu Lys Ser Phe Ile Leu Gln Lys Tyr Met
180 185 190

Met Val Asp Ser Ala Glu Asp Gln Lys Ile His Arg Pro Met Ala Pro
195 200 205

Lys Glu Ala Pro Lys Lys Leu Ile Arg Tyr Ile Asp Asn Gln Val Val
210 215 220

Ser Thr Lys Gly Glu Arg Phe Lys Asp Val Arg Asn Pro Glu Ala Glu
225 230 235 240

Glu Met Lys Ala Thr Tyr Ile Asn Leu Lys Pro Ala Arg Lys Tyr Arg
245 250 255

Phe His

<210> 1419

<211> 280

<212> PRT

<213> Homo sapiens

<400> 1419

Leu Val Glu Pro Ala Met Ala Glu Pro Ala Ser Val Ala Ala Glu Ser

1	5	10	15
Leu Ala Gly Ser Arg Ala Arg Ala Ala Arg Thr Val Leu Gly Gln Val	20	25	30
Val Leu Pro Gly Glu Glu Leu Leu Leu Pro Glu Gln Glu Asp Ala Glu	35	40	45
Gly Pro Gly Gly Ala Val Glu Arg Pro Leu Ser Leu Asn Ala Arg Ala	50	55	60
Cys Ser Arg Val Arg Val Val Cys Gly Pro Gly Leu Arg Arg Cys Gly	65	70	75
Asp Arg Leu Leu Val Thr Lys Cys Gly Arg Leu Arg His Lys Glu Pro	85	90	95
Gly Ser Gly Ser Gly Gly Gly Val Tyr Trp Val Asp Ser Gln Gln Lys	100	105	110
Arg Tyr Val Pro Val Lys Gly Asp His Val Ile Gly Ile Val Thr Ala	115	120	125
Lys Ser Gly Asp Ile Phe Lys Val Asp Val Gly Gly Ser Glu Pro Ala	130	135	140
Ser Leu Ser Tyr Leu Ser Phe Glu Gly Ala Thr Lys Arg Asn Arg Pro	145	150	155
Asn Val Gln Val Gly Asp Leu Ile Tyr Gly Gln Phe Val Val Ala Asn	165	170	175
Lys Asp Met Glu Pro Glu Met Val Cys Ile Asp Ser Cys Gly Arg Ala	180	185	190
Asn Gly Met Gly Val Ile Gly Gln Asp Gly Leu Leu Phe Lys Val Thr	195	200	205
Leu Gly Leu Ile Arg Lys Leu Leu Ala Pro Asp Cys Glu Ile Ile Gln	210	215	220
Glu Val Gly Lys Leu Tyr Pro Leu Glu Ile Val Phe Gly Met Asn Gly	225	230	235
Arg Ile Trp Val Lys Ala Lys Thr Ile Gln Gln Thr Leu Ile Leu Ala	245	250	255
Asn Ile Leu Glu Ala Cys Glu His Met Thr Ser Asp Gln Arg Lys Gln	260	265	270
Ile Phe Ser Arg Leu Ala Glu Ser			

275

280

<210> 1420

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1420

Phe Pro Gly Thr Gly Ser Asp Gly Gly Xaa Pro Glu Thr Val Asp Ser
1 5 10 15

Gly Arg Ser Glu Pro Pro Gly Ala Val Val Leu Pro Arg Leu Arg Glu
20 25 30

Val Gly Arg Glu Arg Thr Trp Arg Pro Gly Ser Met Ala Gly Leu Glu
35 40 45

Leu Leu Ser Asp Gln Gly Tyr Arg Val Asp Gly Arg Arg Ala Gly Glu
50 55 60

Leu Arg Lys Ile Gln Ala Arg Met Gly Val Phe Ala Gln Ala Asp Gly
65 70 75 80

Ser Ala Tyr Ile Glu Gln Gly Asn Thr Lys Ala Leu Ala Val Val Tyr
85 90 95

Gly Pro His Glu Ala Ser Gly Xaa Xaa Gly Trp Gly Ile Val Trp Pro
100 105 110

Trp Glu Leu Arg Gly Ser Arg Ala Glu Arg Trp Leu Gly Asp Leu Arg
115 120 125

Gly Lys Ala Ala Arg Leu Ile Tyr Thr Ala Met Leu Ser Thr Ala Ser
130 135 140

His Ser Glu
145

<210> 1421

<211> 300

<212> PRT

<213> Homo sapiens

<400> 1421

Gly Leu Pro Ile Asn Cys Ile Cys Glu Arg Leu Asn Ile Ile Gly Glu
1 5 10 15
Ile Asn Thr Asp Thr Val Tyr Arg Gln Ala Ile Asn Ser Lys Met Phe
20 25 30
Glu Val Asp Met Lys Ile Ala Ala Met His Val Lys Arg Lys Gln Leu
35 40 45
His Gln Leu Leu Pro Asn His Val Leu Gln Lys Lys Lys Lys His Ser
50 55 60
Thr Glu Gly Val Lys Leu Thr Ala Leu Asn Asp Ser Ser Leu Asp Leu
65 70 75 80
Ser Met Asp Ser Asp Asn Ser Met Ser Val Pro Ser Pro Thr Ser Ala
85 90 95
Thr Lys Thr Ser Pro Leu Asn Ser Ser Gly Ser Ser Gln Gly Arg Asn
100 105 110
Ser Pro Ala Pro Ala Val Thr Ala Ala Ser Val Thr Asn Ile Gln Ala
115 120 125
Thr Glu Val Ser Val Pro Gln Val Asn Ser Ser Glu Ser Ser Gly Gly
130 135 140
Thr Ser Ser Glu Ser Ile Pro Gln Thr Ala Thr Gln Pro Ala Ile Ser
145 150 155 160
Pro Pro Pro Lys Pro Thr Val Ser Arg Val Val Ser Ser Thr Arg Leu
165 170 175
Val Asn Pro Pro Pro Arg Ser Ser Gly Asn Ala Ala Thr Ser Gly Asn
180 185 190
Ala Ala Thr Lys Ile Pro Thr Pro Ile Val Gly Val Lys Arg Thr Ser
195 200 205

Ser Pro His Lys Glu Glu Ser Pro Lys Lys Thr Lys Thr Glu Glu Asp
210 215 220

Glu Thr Ser Glu Asp Ala Asn Cys Leu Ala Leu Ser Gly His Asp Lys
225 230 235 240

Thr Glu Ala Lys Glu Gln Leu Asp Thr Glu Thr Ser Thr Thr Gln Ser
245 250 255

Glu Thr Ile Gln Thr Ala Ala Ser Leu Leu Ala Ser Gln Lys Thr Ser
260 265 270

Ser Thr Asp Leu Ser Asp Ile Pro Ala Leu Pro Ala Asn Pro Ile Pro
275 280 285

Val Ile Lys Asn Ser Ile Lys Leu Arg Leu Asn Arg
290 295 300

<210> 1422

<211> 315

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1422

Asp Ser Pro Leu His Leu Tyr Gln Lys Asn Ala Arg Leu Lys Asn Val
1 5 10 15

Glu Phe Leu Leu Val Asn Arg Ile His Cys Gly Thr Arg His Gln Cys
20 25 30

Leu Gly Tyr Ile Lys Arg Arg Leu Ala Met Cys Ala Arg Arg Leu Gly
35 40 45

Arg Thr Arg Glu Ala Val Lys Met Met Arg Asp Leu Met Lys Glu Phe
50 55 60

Pro Leu Leu Ser Met Phe Asn Ile His Glu Asn Leu Leu Glu Ala Leu
65 70 75 80

Leu Glu Leu Gln Ala Tyr Ala Asp Val Gln Ala Val Leu Ala Lys Tyr
85 90 95

Asp Asp Ile Ser Leu Pro Lys Ser Ala Thr Ile Cys Tyr Thr Ala Ala
100 105 110

Leu Leu Lys Ala Arg Ala Val Ser Asp Lys Phe Ser Xaa Glu Ala Ala
115 120 125

Ser Arg Arg Gly Leu Ser Thr Ala Glu Met Asn Ala Val Glu Ala Ile
130 135 140

His Arg Ala Val Glu Phe Asn Pro His Val Pro Lys Tyr Leu Leu Glu
145 150 155 160

Met Lys Ser Leu Ile Leu Pro Pro Glu His Ile Leu Lys Arg Gly Asp
165 170 175

Xaa Glu Ala Ile Ala Tyr Ala Phe Phe His Leu Ala His Trp Lys Arg
180 185 190

Val Glu Gly Ala Leu Asn Leu Leu His Cys Thr Trp Glu Gly Thr Phe
195 200 205

Arg Met Ile Pro Tyr Pro Leu Glu Lys Gly His Leu Phe Tyr Pro Tyr
210 215 220

Pro Ile Cys Thr Glu Thr Ala Asp Arg Glu Leu Leu Pro Ser Phe His
225 230 235 240

Glu Val Ser Val Tyr Pro Lys Lys Glu Leu Pro Phe Phe Ile Leu Phe
245 250 255

Thr Ala Gly Leu Cys Ser Phe Thr Ala Met Leu Ala Leu Leu Thr His
260 265 270

Gln Phe Pro Glu Leu Met Gly Val Phe Ala Lys Ala Phe Leu Ser Thr
275 280 285

Leu Phe Ala Pro Leu Asn Phe Val Met Glu Lys Val Glu Ser Ile Leu
290 295 300

Pro Ser Ser Leu Trp His Gln Leu Thr Arg Ile
305 310 315

<210> 1423

<211> 164

<212> PRT

<213> Homo sapiens

<400> 1423

Ser Phe Pro Tyr Leu Phe Leu Gln Ser Lys Asn Arg Trp Cys Phe Ala
1 5 10 15
Arg Glu Leu Val Lys Arg Tyr Gln Glu Lys Trp Asp Lys Leu Leu Leu
20 25 30
Thr Ser Thr Glu Lys Ser His Val Asp Leu Phe Pro Lys Asp Ser Ile
35 40 45
Ile Tyr Leu Thr Ala Asp Ser Pro Asn Val Met Thr Thr Phe Arg His
50 55 60
Asp Lys Val Tyr Val Ile Gly Ser Phe Val Asp Lys Ser Met Gln Pro
65 70 75 80
Gly Thr Ser Leu Ala Lys Ala Lys Arg Leu Asn Leu Ala Thr Glu Cys
85 90 95
Leu Pro Leu Asp Lys Tyr Leu Gln Trp Glu Ile Gly Asn Lys Asn Leu
100 105 110
Thr Leu Asp Gln Met Ile Arg Ile Leu Leu Cys Leu Lys Asn Asn Gly
115 120 125
Asn Trp Gln Glu Ala Leu Gln Phe Val Pro Lys Arg Lys His Thr Gly
130 135 140
Phe Leu Glu Ile Ser Gln His Ser Gln Glu Phe Ile Asn Arg Leu Lys
145 150 155 160
Lys Ala Lys Thr

<210> 1424

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1424

Glu Val Trp Leu Phe Met His Pro Ser Ser Arg Ala Leu Lys Leu His
1 5 10 15
Gly Leu Ile Lys Val Asp Ala Lys Gln Glu Arg Asn Lys Gln Lys Lys
20 25 30
Lys Thr Ser Lys Met Phe Thr Lys Lys Leu Lys Gln Met Ser Ser Ala
35 40 45

Cys Ser Ile Ser Gln Ser Leu Leu Ser Ser Val Val Asn Met Phe Gln
50 55 60

Met Thr Phe Ser Trp Lys Lys Asn Leu Tyr Asn Ile Val Glu Cys Glu
65 70 75 80

Gly

<210> 1425

<211> 172

<212> PRT

<213> Homo sapiens

<400> 1425

Met Gly Gly Asp Ala Gly Asp Arg Glu Pro Gly Pro Ala Ala Arg Ser
1 5 10 15

Leu Gly Glu Gly Gln Ala Gly Phe Ala Thr Ala Asp His Ser Gly Gln
20 25 30

Glu Arg Glu Thr Glu Lys Ala Met Asp Arg Leu Ala Arg Gly Thr Gln
35 40 45

Ser Ile Pro Asn Asp Ser Pro Ala Arg Gly Glu Gly Thr His Ser Glu
50 55 60

Glu Glu Gly Phe Ala Met Asp Glu Glu Asp Ser Asp Gly Glu Leu Asn
65 70 75 80

Thr Trp Glu Leu Ser Glu Gly Thr Asn Cys Pro Pro Lys Glu Gln Pro
85 90 95

Gly Asp Leu Phe Asn Glu Asp Trp Asp Ser Glu Leu Lys Ala Asp Gln
100 105 110

Gly Asn Pro Tyr Asp Ala Asp Asp Ile Gln Glu Ser Ile Ser Gln Glu
115 120 125

Leu Lys Pro Trp Val Cys Cys Ala Pro Gln Gly Asp Met Ile Tyr Asp
130 135 140

Pro Ser Trp His His Pro Pro Pro Leu Ile Pro Tyr Tyr Ser Lys Met
145 150 155 160

Val Phe Glu Thr Gly Gln Phe Asp Asp Ala Glu Asp
165 170

<210> 1426
<211> 276
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (273)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (275)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1426
Cys Lys Lys Gln Arg Leu Gln Gln Gln Gln Gln Arg Arg Trp Gln
1 5 10 15
Gln Gln Gln Gln Arg Arg Gln Gln Gln Gln Gln Arg Arg His Arg Trp
20 25 30
Gln Gln Gln His His Gln Gln Gln Gln Gln Xaa Lys Ile Leu Ile Lys
35 40 45
Ser Ser Pro Lys Leu Ser Val Tyr Pro Asp Pro His Leu His Ser Ser
50 55 60
Gln Glu Arg Glu Arg Gly Lys Gly Gly Arg Lys Lys Lys Lys Pro Asn
65 70 75 80
Asn Leu Ala Glu Thr Ser Gln Arg Met Leu Gln Asn Ser Ala Val Leu
85 90 95
Leu Val Leu Val Ile Ser Ala Ser Ala Thr His Glu Ala Glu Gln Asn
100 105 110
Asp Ser Val Ser Pro Arg Lys Ser Arg Val Ala Ala Gln Asn Ser Ala
115 120 125
Glu Val Val Arg Cys Leu Asn Ser Ala Leu Gln Val Gly Cys Gly Ala
130 135 140
Phe Ala Cys Leu Glu Asn Ser Thr Cys Asp Thr Asp Gly Met Tyr Asp

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145          150          155          160
Ile Cys Lys Ser Phe Leu Tyr Ser Ala Ala Lys Phe Asp Thr Gln Gly
          165          170          175
Lys Ala Phe Val Lys Glu Ser Leu Lys Cys Ile Ala Asn Gly Val Thr
          180          185          190
Ser Lys Val Phe Leu Ala Ile Arg Arg Cys Ser Thr Phe Gln Arg Met
          195          200          205
Ile Ala Glu Val Gln Glu Glu Cys Tyr Ser Lys Leu Asn Val Cys Ser
          210          215          220
Ile Ala Lys Arg Asn Pro Glu Ala Ile Thr Glu Val Val Gln Leu Pro
          225          230          235          240
Asn His Phe Ser Asn Arg Tyr Tyr Asn Arg Leu Val Arg Ser Leu Leu
          245          250          255
Glu Cys Asp Glu Asp Thr Val Ser Thr Ile Arg Asp Ser Leu Met Glu
          260          265          270
Xaa Ile Xaa Ala
          275

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<210> 1427

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1427

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Cys Asn Ser Arg Ser Gln Gly Leu Ala Leu Thr Gln Val Ala Ser Arg
  1           5           10           15

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Ile Pro Val Gly Lys Arg Pro Ala Thr Ser Gly Leu Glu Leu Ala Cys
          20           25           30

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Val Pro Pro Xaa Pro Ala Pro Pro Thr Ser Arg Val Gln Cys Trp Ala

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35 40 45
 Arg Ala Ala Gln Glu Xaa Arg Thr Arg Arg Leu Ala Arg His Gln Thr
 50 55 60
 His Pro Thr Gln Arg Arg Gly Pro Gln Ala Arg Pro Val Val Pro Ser
 65 70 75 80
 Arg Trp His Cys Ser Ser Pro Leu Leu Gln Val Gln Arg Pro His Arg
 85 90 95
 Asn Thr Arg Ala Cys Ala Pro Glu Pro Ser Phe Arg Pro Phe Leu His
 100 105 110
 Val Pro Thr Trp Asp Ala Glu Cys Ser Gly Ala Arg Thr Pro Ser Thr
 115 120 125
 Ala Trp Thr Ser Ala Ala Val Lys Leu Arg Glu Ala Cys Leu Ser Gly
 130 135 140
 Pro Gly Ser Gly Ser His Gln Leu Leu Leu Leu Thr Pro Arg Ser Lys
 145 150 155 160
 Arg Arg Thr Gly Gly Gly
 165

<210> 1428

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1428

Gln Arg Gly Ser Thr Ser Glu Thr Pro Arg Arg Arg Ser Ser Val Trp
 1 5 10 15

Pro Ala Cys Xaa Gln Glu Gly Val Lys Ser Gly Met Tyr Val Val Ile
 20 25 30

Glu Val Lys Val Ala Thr Gln Glu Gly Lys Glu Ile Thr Cys Arg Ser

35 40 45
 Tyr Leu Met Thr Asn Tyr Glu Ser Xaa Pro Pro Ser Pro Gln Tyr Lys
 50 55 60
 Lys Ile Ile Cys Met Gly Ala Lys Glu Asn Gly Leu Pro Leu Glu Tyr
 65 70 75 80
 Gln Glu Lys Leu Lys Ala Ile Glu Pro Asn Asp Tyr Thr Gly Lys Val
 85 90 95
 Ser Glu Glu Ile Glu Asp Ile Ile Lys Lys Gly Glu Thr Gln Thr Leu
 100 105 110

<210> 1429

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1429

Pro Gly Thr His Val Ser Xaa Pro His Phe Leu Trp Gly Cys Ala Ser
 1 5 10 15

Leu Arg Val Ala Asn Arg Met Ser Ser Val Gln Trp Trp Ser Gln Asp
 20 25 30

Ser Val Cys Arg Ala Asp Phe Leu Ser Leu Leu Lys Thr Leu Asn Thr
 35 40 45

Ala Val Phe Ser Ser Gln Gln Arg Asn Lys Ile Ser Leu Ser Asp Asn
 50 55 60

Asp Asn Asn Lys Gln Ser Ile Ala Ser Thr Ala Phe Thr Ala Tyr Xaa
 65 70 75 80

Lys Thr Tyr Tyr Val Pro Gly Thr Ser Thr Asp Phe Asn Leu

85

90

<210> 1430

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1430

Leu Ser Lys Gln Arg Pro Ala Val Gly Val His His Ala Phe His Leu
 1 5 10 15

Pro His Cys Phe Phe Ala Ser Leu Leu Glu Ser Pro Val Ser Pro Arg
 20 25 30

Leu Ala Met Asp Pro Asn Cys Ser Cys Ala Ala Gly Val Ser Cys Thr
 35 40 45

Cys Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
 50 55 60

Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ser Lys Cys Ala Gln
 65 70 75 80

Gly Cys Val Cys Lys Gly Ala Ser Glu Lys Cys Ser Cys Cys Asp
 85 90 95

<210> 1431

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1431

Pro Arg His Leu Ile Thr Ile Ser Tyr Val Val Ala Val Arg Asn Ala
 1 5 10 15

Phe Gln Val Gly Thr Trp Asp Pro Glu Ser Thr Phe Ala Pro Cys Gly
 20 25 30

Gly Arg Leu Pro Xaa Xaa Lys Met Glu Ala Gln Ser Pro Tyr Tyr Gln
35 40 45
Thr Val Val Val Ser Arg Gly Arg Gly Glu Met Phe Ile Gly His Ser
50 55 60
Leu Ser Trp Gly Val Ile Phe Ile Thr Ile His Val Asn Cys Thr Leu
65 70 75 80
Val

<210> 1432

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1432

Thr His Trp Ser Lys Asp Tyr Gln Leu Val Thr Trp Ser Arg Asp Gln
1 5 10 15
Thr Leu Arg Met Trp Arg Val Asp Ser Gln Met Gln Arg Leu Cys Ala
20 25 30
Asn Asp Ile Leu Asp Gly Val Asp Glu Phe Ile Glu Ser Ile Ser Leu
35 40 45
Leu Pro Glu Pro Glu Lys Thr Leu His Thr Glu Asp Thr Asp His Gln
50 55 60
His Thr Ala Ser His Gly Glu Glu Glu Ala Leu Lys Glu Asp Pro Pro
65 70 75 80

Arg Asn Leu Leu Glu Glu Arg Lys Ser Asp Gln Leu Gly Leu Pro Gln
 85 90 95
 Thr Leu Gln Gln Glu Phe Ser Leu Ile Asn Val Gln Ile Arg Asn Val
 100 105 110
 Asn Xaa Glu Met Asp Ala Ala Asp Arg Ser Cys Thr Val Ser Val His
 115 120 125
 Cys Ser Asn His Arg Val Lys Met Leu Val Lys Phe Pro Ala Gln Tyr
 130 135 140
 Pro Asn Asn Ala Ala Pro Ser Phe Gln Phe Ile Asn Pro Thr Thr Ile
 145 150 155 160
 Thr Ser Thr Met Lys Ala Lys Leu Leu Lys Ile Leu Lys Asp Thr Ala
 165 170 175
 Leu Gln Lys Val Lys Arg Gly Gln Ser Cys Leu Glu Pro Cys Leu Arg
 180 185 190
 Xaa Ser Ser Pro Ala Leu Ser Pro Xaa
 195 200

<210> 1433

<211> 150

<212> PRT

<213> Homo sapiens

<400> 1433

Thr Val Val Ala Trp Glu Gly Gly Tyr His Thr Phe Ser Thr Cys Leu
 1 5 10 15
 Thr Val Ser Trp Leu Gln Glu Asp Gln Tyr Asp His Leu Asp Ala Ala
 20 25 30
 Asp Met Thr Lys Val Glu Lys Ser Thr Asn Glu Ala Met Glu Trp Met
 35 40 45
 Asn Asn Lys Leu Asn Leu Gln Asn Lys Gln Ser Leu Thr Met Asp Pro
 50 55 60
 Val Val Lys Ser Lys Glu Ile Glu Ala Lys Ile Lys Glu Leu Thr Ser
 65 70 75 80
 Thr Cys Ser Pro Ile Ile Ser Lys Pro Lys Pro Lys Val Glu Pro Pro
 85 90 95
 Lys Glu Glu Gln Lys Asn Ala Glu Gln Asn Gly Pro Val Asp Gly Gln

100 105 110
Gly Asp Asn Pro Gly Pro Gln Ala Ala Glu Gln Gly Thr Asp Thr Ala
115 120 125
Val Leu Arg Ile Gln Thr Arg Ser Phe Leu Lys Trp Thr Leu Ile Asp
130 135 140
Ser Asn Thr Cys Phe Tyr
145 150

<210> 1434
<211> 145
<212> PRT
<213> Homo sapiens

<400> 1434
His Glu Val Val Glu His Asn Pro Ile Ser Val Leu Asp Ser Pro Ser
1 5 10 15
Ser Asp Cys Phe Ala Glu Trp Pro Gly Glu Leu Gly Arg Gly Trp Met
20 25 30
Asp Arg Asn Lys His Thr Glu Ser Glu Val Gln Gly Arg Trp Ser Ser
35 40 45
Phe Ser Leu Cys Arg Val Arg Met Lys Leu Cys Ser Gly Pro Trp Lys
50 55 60
Cys Pro Trp Gln Lys Pro Asn Pro Arg Phe Gln Gly Thr Leu Pro Ser
65 70 75 80
Cys Glu Arg Glu Arg Asn Cys Gly Gln Gly Leu Gly Leu Glu Ala Gly
85 90 95
Arg Trp Asp His Ser Asp Thr Met Gln Asp Asn Arg Trp Gln Leu Gly
100 105 110
Leu Lys Ile Lys Met Asn Tyr Met Ile Phe Asp Lys Leu Phe Asn Pro
115 120 125
Trp Ser Leu His Phe Leu Tyr Lys Thr Gly Thr Ile Leu Ile Pro Thr
130 135 140
Leu
145

<210> 1435

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1435

Ala Gly Ala Gln Trp His Asn His Ser Ser Leu Gln Pro Trp Asn Ser
1 5 10 15

Gln Ala Gln Val Ile Leu Pro Ser Ala Pro Ala Arg Val Ala Gly Thr
20 25 30

Pro Gly Met His His Tyr Asn Gln Leu Ile Phe Phe Xaa Phe
35 40 45

<210> 1436

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1436

Asn Ser Thr Met Ala Tyr Arg Gly Gln Gly Gln Lys Val Gln Lys Val
1 5 10 15

Met Val Gln Pro Ile Asn Leu Ile Phe Arg Tyr Leu Gln Asn Arg Ser
20 25 30

Arg Ile Gln Val Trp Leu Tyr Glu Gln Val Asn Met Arg Ile Glu Gly
35 40 45

Cys Ile Ile Gly Phe Asp Glu Tyr Met Asn Leu Val Leu Asp Asp Ala
50 55 60

Glu Glu Ile His Ser Lys Thr Lys Ser Arg Lys Gln Leu Gly Arg Ile
65 70 75 80

Met Leu Lys Gly Asp Asn Ile Thr Leu Leu Gln Ser Val Ser Asn
85 90 95

<210> 1437

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1437

Gln Gly Ala Leu Gly Ser Pro Val Pro Val Ala Val Ala Pro Leu Thr
1 5 10 15

Pro Pro Ser Xaa Cys Pro Ala Pro Pro Leu Arg Pro Pro His Thr Pro
20 25 30

Leu Ala Leu Thr Thr Cys Ile Ser Pro Ala Cys Val His Pro Pro Gly
35 40 45

Trp Leu Thr His Ser His Ser His Thr Gln Ile Ser Gly Thr Asn Gly
50 55 60

Pro Arg Val Leu Arg Thr Pro Ala Gln Gly Leu Cys Arg Ser Leu Pro
65 70 75 80

His Ala Phe Pro Ser Leu Thr Lys Pro Pro Ala Ala Ser Phe Lys Leu
85 90 95

Gly Ala Pro Ala Leu Gly Leu Ser Cys Ala Leu Phe Phe Phe Phe Phe
100 105 110

Phe

<210> 1438

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1438

Phe Leu His Thr Phe Asn Cys Ser Trp Ser Leu Thr Ser Pro Gly Xaa
1 5 10 15

Arg Asp Val Leu Lys Gly Ser Gln Leu Trp Gln Val Thr Asp Ser Trp
20 25 30

Glu Met Glu Arg Thr Lys Glu Tyr Ser Ser Cys Leu Thr Phe Leu Pro
 35 40 45
 Thr Ala Asp Ile Val Gln Ala Arg Val Met Glu Glu Leu Asn Leu Leu
 50 55 60
 Ala Ser Gln Ala Ala Pro Ile Pro Thr Ser Gln Cys Thr Ala Pro Pro
 65 70 75 80
 His Leu Phe Ser Pro Leu Ser Leu Thr Ser Pro Phe Ile Met Ser His
 85 90 95
 Lys Ser Gly Thr Val Gly Ser His Tyr Asn Leu Leu Cys His Arg Asp
 100 105 110
 Ser Ile Phe Leu Ile Ser Asn His Val Ser
 115 120

<210> 1439

<211> 323

<212> PRT

<213> Homo sapiens

<400> 1439

Phe Val Ser Pro Ala Ile Asp Ser Thr Arg Gly Asp Ser Ser Ser Leu
 1 5 10 15
 Val Ala Glu Leu Gln Glu Lys Leu Gln Glu Glu Lys Ala Lys Phe Leu
 20 25 30
 Glu Gln Leu Glu Glu Gln Glu Lys Arg Lys Asn Glu Glu Met Gln Asn
 35 40 45
 Val Arg Thr Ser Leu Ile Ala Glu Gln Gln Thr Asn Phe Asn Thr Val
 50 55 60
 Leu Thr Arg Glu Lys Met Arg Lys Glu Asn Ile Ile Asn Asp Leu Ser
 65 70 75 80
 Asp Lys Leu Lys Ser Thr Met Gln Gln Gln Glu Arg Asp Lys Asp Leu
 85 90 95
 Ile Glu Ser Leu Ser Glu Asp Arg Ala Arg Leu Leu Glu Glu Lys Lys
 100 105 110
 Lys Leu Glu Glu Glu Val Ser Lys Leu Arg Ser Ser Ser Phe Val Pro
 115 120 125
 Ser Pro Tyr Val Ala Thr Ala Pro Glu Leu Tyr Gly Ala Cys Ala Pro

130 135 140
 Glu Leu Pro Gly Glu Ser Asp Arg Ser Ala Val Glu Thr Ala Asp Glu
 145 150 155 160
 Gly Arg Val Asp Ser Ala Met Glu Thr Ser Met Met Ser Val Gln Glu
 165 170 175
 Asn Ile His Met Leu Ser Glu Glu Lys Gln Arg Ile Met Leu Leu Glu
 180 185 190
 Arg Thr Leu Gln Leu Lys Glu Glu Glu Asn Lys Arg Leu Asn Gln Arg
 195 200 205
 Leu Met Ser Gln Ser Met Ser Ser Val Ser Ser Arg His Ser Glu Lys
 210 215 220
 Ile Ala Ile Arg Asp Phe Gln Val Gly Asp Leu Val Leu Ile Ile Leu
 225 230 235 240
 Asp Glu Arg His Asp Asn Tyr Val Leu Phe Thr Val Ser Pro Thr Leu
 245 250 255
 Tyr Phe Leu His Ser Glu Ser Leu Pro Ala Leu Asp Leu Lys Pro Gly
 260 265 270
 Glu Gly Ala Ser Gly Ala Ser Arg Arg Pro Trp Val Leu Gly Lys Val
 275 280 285
 Met Glu Lys Glu Tyr Cys Gln Ala Lys Lys Ala Gln Asn Arg Phe Lys
 290 295 300
 Val Pro Leu Gly Thr Lys Phe Tyr Arg Val Lys Ala Val Ser Trp Asn
 305 310 315 320
 Lys Lys Val

<210> 1440

<211> 459

<212> PRT

<213> Homo sapiens

<400> 1440

Thr Arg Trp Trp Gly Pro Val Leu Trp Ser Lys Ser Arg Pro Pro Gly
 1 5 10 15

Arg Thr Arg Gly Pro Ser Gly Trp Arg Val Gly Leu Thr Arg Thr Ser
 20 25 30

Arg Pro Ala Ser Pro Ser Ala Leu Arg Thr Gly Asp Gly Ser Ser Arg
 35 40 45
 Pro Gly Thr Pro Pro Ala Ser Pro Arg Val Phe Glu Val Arg Gly Gly
 50 55 60
 Ser Gly Ala Ser Ala Arg Arg Ser Ala Arg Ser Leu Pro Ala Leu Glu
 65 70 75 80
 Ser Ala Ile Met Asp Val Leu Ala Glu Ala Asn Gly Thr Phe Ala Leu
 85 90 95
 Asn Leu Leu Lys Thr Leu Gly Lys Asp Asn Ser Lys Asn Val Phe Phe
 100 105 110
 Ser Pro Met Ser Met Ser Cys Ala Leu Ala Met Val Tyr Met Gly Ala
 115 120 125
 Lys Gly Asn Thr Ala Ala Gln Met Ala Gln Ile Leu Ser Phe Asn Lys
 130 135 140
 Ser Gly Gly Gly Gly Asp Ile His Gln Gly Phe Gln Ser Leu Leu Thr
 145 150 155 160
 Glu Val Asn Lys Thr Gly Thr Gln Tyr Leu Leu Arg Met Ala Asn Arg
 165 170 175
 Leu Phe Gly Glu Lys Ser Cys Asp Phe Leu Ser Ser Phe Arg Asp Ser
 180 185 190
 Cys Gln Lys Phe Tyr Gln Ala Glu Met Glu Glu Leu Asp Phe Ile Ser
 195 200 205
 Ala Val Glu Lys Ser Arg Lys His Ile Asn Thr Trp Val Ala Glu Lys
 210 215 220
 Thr Glu Gly Lys Ile Ala Glu Leu Leu Ser Pro Gly Ser Val Asp Pro
 225 230 235 240
 Leu Thr Arg Leu Val Leu Val Asn Ala Val Tyr Phe Arg Gly Asn Trp
 245 250 255
 Asp Glu Gln Phe Asp Lys Glu Asn Thr Glu Glu Arg Leu Phe Lys Val
 260 265 270
 Ser Lys Asn Glu Glu Lys Pro Val Gln Met Met Phe Lys Gln Ser Thr
 275 280 285
 Phe Lys Lys Thr Tyr Ile Gly Glu Ile Phe Thr Gln Ile Leu Val Leu
 290 295 300

Pro Tyr Val Gly Lys Glu Leu Asn Met Ile Ile Met Leu Pro Asp Glu
305 310 315 320

Thr Thr Asp Leu Arg Thr Val Glu Lys Glu Leu Thr Tyr Glu Lys Phe
325 330 335

Val Glu Trp Thr Arg Leu Asp Met Met Asp Glu Glu Glu Val Glu Val
340 345 350

Ser Leu Pro Arg Phe Lys Leu Glu Glu Ser Tyr Asp Met Glu Ser Val
355 360 365

Leu Arg Asn Leu Gly Met Thr Asp Ala Phe Glu Leu Gly Lys Ala Asp
370 375 380

Phe Ser Gly Met Ser Gln Thr Asp Leu Ser Leu Ser Lys Val Val His
385 390 395 400

Lys Ser Phe Val Glu Val Asn Glu Glu Gly Thr Glu Ala Ala Ala Ala
405 410 415

Thr Ala Ala Ile Met Met Met Arg Cys Ala Arg Phe Val Pro Arg Phe
420 425 430

Cys Ala Asp His Pro Phe Leu Phe Phe Ile Gln His Ser Lys Thr Asn
435 440 445

Gly Ile Leu Phe Cys Gly Arg Phe Ser Ser Pro
450 455

<210> 1441

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1441

Leu Val Glu Ala Leu Lys Leu Gln Glu Gln Leu Lys Ala Pro Val Lys
1 5 10 15

Thr Leu Ser Glu Gly Ile Lys Arg Lys Leu Cys Phe Val Leu Ser Ile
20 25 30

Leu Gly Asn Pro Ser Val Val Leu Leu Asp Glu Leu Phe Thr Gly Met
35 40 45

Asp Pro Glu Gly Gln Gln Gln Met Trp Gln Ile Leu Gln Ala Thr Ile
50 55 60

Lys Asn Gln Glu Arg Gly Ala Leu Leu Thr Thr His Tyr Met Ser Glu
 65 70 75 80
 Ala Lys Ser Leu Cys Asp Arg Val Ala Ile Met Val Ser Gly Thr Leu
 85 90 95
 Arg Cys Ile Gly Ser Ile Gln Gln Leu Lys Ser Leu Val Lys Ile Ile
 100 105 110

Tyr

<210> 1442

<211> 839

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (291)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (295)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (683)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1442

Ala Glu His Trp Gly Ala Ile Pro Pro Ala Gly Gly Gly Ala Val Gly
 1 5 10 15

Ile Ser Glu Thr Phe Leu Gly Lys Lys Val Arg Thr Lys Thr Leu Ser
 20 25 30

Glu Asp Asp Leu Lys Glu Ile Pro Ala Glu Gln Met Asp Phe Arg Ala
 35 40 45

Asn Leu Gln Arg Gln Val Lys Pro Lys Thr Val Ser Glu Glu Glu Arg
 50 55 60

Lys Val His Ser Pro Gln Gln Val Asp Phe Arg Ser Val Leu Ala Lys
 65 70 75 80

Lys Gly Thr Ser Lys Thr Pro Val Pro Glu Lys Val Pro Pro Pro Lys

85										90					95				
Pro	Ala	Thr	Pro	Asp	Phe	Arg	Ser	Val	Leu	Gly	Gly	Lys	Lys	Lys	Leu				
			100					105					110						
Pro	Ala	Glu	Asn	Gly	Ser	Ser	Ser	Ala	Glu	Thr	Leu	Asn	Ala	Lys	Ala				
		115					120					125							
Val	Glu	Ser	Ser	Lys	Pro	Leu	Ser	Asn	Ala	Gln	Pro	Ser	Gly	Pro	Leu				
		130				135					140								
Lys	Pro	Val	Gly	Asn	Ala	Lys	Pro	Ala	Glu	Thr	Leu	Lys	Pro	Met	Gly				
145					150					155					160				
Asn	Ala	Lys	Pro	Ala	Glu	Thr	Leu	Lys	Pro	Met	Gly	Asn	Ala	Lys	Pro				
				165					170					175					
Asp	Glu	Asn	Leu	Lys	Ser	Ala	Ser	Lys	Glu	Glu	Leu	Lys	Lys	Asp	Val				
			180					185					190						
Lys	Asn	Asp	Val	Asn	Cys	Lys	Arg	Gly	His	Ala	Gly	Thr	Thr	Asp	Asn				
		195					200					205							
Glu	Lys	Arg	Ser	Glu	Ser	Gln	Gly	Thr	Ala	Pro	Ala	Phe	Lys	Gln	Lys				
		210				215					220								
Leu	Gln	Asp	Val	His	Val	Ala	Glu	Gly	Lys	Lys	Leu	Leu	Leu	Gln	Cys				
225					230					235					240				
Gln	Val	Ser	Ser	Asp	Pro	Pro	Ala	Thr	Ile	Ile	Trp	Thr	Leu	Asn	Gly				
				245					250					255					
Lys	Thr	Leu	Lys	Thr	Thr	Lys	Phe	Ile	Ile	Leu	Ser	Gln	Glu	Gly	Ser				
			260					265					270						
Leu	Cys	Ser	Val	Ser	Ile	Glu	Lys	Ala	Leu	Pro	Glu	Asp	Arg	Gly	Leu				
		275					280					285							
Tyr	Lys	Xaa	Val	Ala	Lys	Xaa	Asp	Ala	Gly	Gln	Ala	Glu	Cys	Ser	Cys				
		290				295					300								
Gln	Val	Thr	Val	Asp	Asp	Ala	Pro	Ala	Ser	Glu	Asn	Thr	Lys	Ala	Pro				
305					310					315					320				
Glu	Met	Lys	Ser	Arg	Arg	Pro	Lys	Ser	Ser	Leu	Pro	Pro	Val	Leu	Gly				
				325					330					335					
Thr	Glu	Ser	Asp	Ala	Thr	Val	Lys	Lys	Lys	Pro	Ala	Pro	Lys	Thr	Pro				
			340					345					350						
Pro	Lys	Ala	Ala	Met	Pro	Pro	Gln	Ile	Ile	Gln	Phe	Pro	Glu	Asp	Gln				

355	360	365
Lys Val Arg Ala Gly Glu Ser Val Glu Leu Phe Gly Lys Val Thr Gly		
370	375	380
Thr Gln Pro Ile Thr Cys Thr Trp Met Lys Phe Arg Lys Gln Ile Gln		
385	390	395 400
Glu Ser Glu His Met Lys Val Glu Asn Ser Glu Asn Gly Ser Lys Leu		
405	410	415
Thr Ile Leu Ala Ala Arg Gln Glu His Cys Gly Cys Tyr Thr Leu Leu		
420	425	430
Val Glu Asn Lys Leu Gly Ser Arg Gln Ala Gln Val Asn Leu Thr Val		
435	440	445
Val Asp Lys Pro Asp Pro Pro Ala Gly Thr Pro Cys Ala Ser Asp Ile		
450	455	460
Arg Ser Ser Ser Leu Thr Leu Ser Trp Tyr Gly Ser Ser Tyr Asp Gly		
465	470	475 480
Gly Ser Ala Val Gln Ser Tyr Ser Ile Glu Ile Trp Asp Ser Ala Asn		
485	490	495
Lys Thr Trp Lys Glu Leu Ala Thr Cys Arg Ser Thr Ser Phe Asn Val		
500	505	510
Gln Asp Leu Leu Pro Asp His Glu Tyr Lys Phe Arg Val Arg Ala Ile		
515	520	525
Asn Val Tyr Gly Thr Ser Glu Pro Ser Gln Glu Ser Glu Leu Thr Thr		
530	535	540
Val Gly Glu Lys Pro Glu Glu Pro Lys Asp Glu Val Glu Val Ser Asp		
545	550	555 560
Asp Asp Glu Lys Glu Pro Glu Val Asp Tyr Arg Thr Val Thr Ile Asn		
565	570	575
Thr Glu Gln Lys Val Ser Asp Phe Tyr Asp Ile Glu Glu Arg Leu Gly		
580	585	590
Ser Gly Lys Phe Gly Gln Val Phe Arg Leu Val Glu Lys Lys Thr Arg		
595	600	605
Lys Val Trp Ala Gly Lys Phe Phe Lys Ala Tyr Ser Ala Lys Glu Lys		
610	615	620
Glu Asn Ile Arg Gln Glu Ile Ser Ile Met Asn Cys Leu His His Pro		

625		630		635		640									
Lys	Leu	Val	Gln	Cys	Val	Asp	Ala	Phe	Glu	Glu	Lys	Ala	Asn	Ile	Val
			645						650					655	
Met	Val	Leu	Glu	Ile	Val	Ser	Gly	Gly	Glu	Leu	Phe	Glu	Arg	Ile	Ile
		660						665					670		
Asp	Glu	Asp	Phe	Glu	Leu	Thr	Glu	Arg	Glu	Xaa	Ile	Lys	Tyr	Met	Arg
	675						680					685			
Gln	Ile	Ser	Glu	Gly	Val	Glu	Tyr	Ile	His	Lys	Gln	Gly	Ile	Val	His
	690					695					700				
Leu	Asp	Leu	Lys	Pro	Glu	Asn	Ile	Met	Cys	Val	Asn	Lys	Thr	Gly	Thr
705					710					715				720	
Arg	Ile	Lys	Leu	Ile	Asp	Phe	Gly	Leu	Ala	Arg	Arg	Leu	Glu	Asn	Ala
			725					730					735		
Gly	Ser	Leu	Lys	Val	Leu	Phe	Gly	Thr	Pro	Glu	Phe	Val	Ala	Pro	Glu
		740					745					750			
Val	Ile	Asn	Tyr	Glu	Pro	Ile	Gly	Tyr	Ala	Thr	Asp	Met	Trp	Ser	Ile
	755					760					765				
Gly	Val	Ile	Cys	Tyr	Ile	Leu	Val	Ser	Gly	Leu	Ser	Pro	Phe	Met	Gly
	770					775					780				
Asp	Asn	Asp	Asn	Glu	Thr	Leu	Ala	Asn	Val	Thr	Ser	Ala	Thr	Trp	Asp
785				790						795				800	
Phe	Asp	Asp	Glu	Ala	Phe	Asp	Glu	Ile	Ser	Asp	Asp	Ala	Lys	Asp	Phe
			805					810					815		
Ile	Ser	Asn	Leu	Leu	Lys	Lys	Asp	Met	Lys	Asn	Arg	Leu	Asp	Cys	Thr
		820						825					830		
His	Ala	Phe	Ser	Ile	His	Gly									
	835														

<210> 1443

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1443

Cys	Ser	Cys	Thr	Val	Arg	Ala	Arg	Arg	Arg	Leu	Asn	Arg	Gly	Leu	Arg
1				5						10				15	

Arg Lys Gln His Ser Leu Leu Lys Arg Leu Arg Lys Ala Lys Lys Glu
20 25 30
Ala Pro Pro Met Glu Lys Pro Glu Val Val Lys Thr His Leu Arg Asp
35 40 45
Met Ile Ile Leu Pro Glu Met Val Gly Ser Met Val Gly Val Tyr Asn
50 55 60
Gly Lys Thr Phe Asn Gln Val Glu Ile Lys Pro Glu Met Ile Gly His
65 70 75 80
Tyr Leu Gly Glu Phe Ser Ile Thr Tyr Lys Pro Val Lys His Gly Arg
85 90 95
Pro Gly Ile Gly Ala Thr His Ser Ser Arg Phe Ile Pro Leu Lys
100 105 110

<210> 1444

<211> 531

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (446)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (474)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (502)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (504)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1444

Glu Lys Ser Val Gln Xaa Ser Lys Arg Glu Ser Val Ser His Arg Ser
 1 5 10 15
 Pro Ser Pro Glu Pro Ile Tyr Asn Ser Glu Gly Lys Arg Leu Asn Thr
 20 25 30
 Arg Glu Phe Arg Thr Arg Lys Lys Leu Glu Glu Glu Arg His Asn Leu
 35 40 45
 Ile Thr Glu Met Val Ala Leu Asn Pro Asp Phe Lys Pro Pro Ala Asp
 50 55 60
 Tyr Lys Pro Pro Ala Thr Arg Val Ser Asp Lys Val Met Ile Pro Gln
 65 70 75 80
 Asp Glu Tyr Pro Glu Ile Asn Phe Val Gly Leu Leu Ile Gly Pro Arg
 85 90 95
 Gly Asn Thr Leu Lys Asn Ile Glu Lys Glu Cys Asn Ala Lys Ile Met
 100 105 110
 Ile Arg Gly Lys Gly Ser Val Lys Glu Gly Lys Val Gly Arg Lys Asp
 115 120 125
 Gly Gln Met Leu Pro Gly Glu Asp Glu Pro Leu His Ala Leu Val Thr
 130 135 140
 Ala Asn Thr Met Glu Asn Val Lys Lys Ala Val Glu Gln Ile Arg Asn
 145 150 155 160
 Ile Leu Lys Gln Gly Ile Glu Thr Pro Glu Asp Gln Asn Asp Leu Arg
 165 170 175
 Lys Met Gln Leu Arg Glu Leu Ala Arg Leu Asn Gly Thr Leu Arg Glu
 180 185 190
 Asp Asp Asn Arg Ile Leu Arg Pro Trp Gln Ser Ser Glu Thr Arg Ser
 195 200 205
 Ile Thr Asn Thr Thr Val Cys Thr Lys Cys Gly Gly Ala Gly His Ile
 210 215 220
 Ala Ser Asp Cys Lys Phe Gln Arg Pro Gly Asp Pro Gln Ser Ala Gln
 225 230 235 240
 Asp Lys Ala Arg Met Asp Lys Glu Tyr Leu Ser Leu Met Ala Glu Leu
 245 250 255
 Gly Glu Ala Pro Val Pro Ala Ser Val Gly Ser Thr Ser Gly Pro Ala
 260 265 270

Thr Thr Pro Leu Ala Ser Ala Pro Arg Pro Ala Ala Pro Ala Asn Asn
275 280 285

Pro Pro Pro Pro Ser Leu Met Ser Thr Thr Gln Ser Arg Pro Pro Trp
290 295 300

Met Asn Ser Gly Pro Ser Glu Ser Arg Pro Tyr His Gly Met His Gly
305 310 315 320

Gly Gly Pro Gly Gly Pro Gly Gly Gly Pro His Ser Phe Pro His Pro
325 330 335

Leu Pro Ser Leu Thr Gly Gly His Gly Gly His Pro Met Gln His Asn
340 345 350

Pro Asn Gly Pro Pro Pro Pro Trp Met Gln Pro Pro Pro Pro Pro Met
355 360 365

Asn Gln Gly Pro His Pro Pro Gly His His Gly Pro Pro Pro Met Asp
370 375 380

Gln Tyr Leu Gly Ser Thr Pro Val Gly Ser Gly Val Tyr Arg Leu His
385 390 395 400

Gln Gly Lys Gly Met Met Pro Pro Pro Pro Met Gly Met Met Pro Pro
405 410 415

Pro Pro Pro Pro Pro Ser Gly Gln Pro Pro Pro Pro Pro Ser Gly Pro
420 425 430

Leu Pro Pro Trp Gln Gln Gln Gln Gln Gln Pro Pro Pro Xaa Pro Pro
435 440 445

Pro Ser Ser Ser Met Ala Ser Ser Thr Pro Leu Pro Trp Gln Gln Asn
450 455 460

Thr Thr Thr Thr Thr Thr Ser Ala Gly Xaa Gly Ser Ile Pro Pro Trp
465 470 475 480

Gln Gln Gln Gln Ala Ala Ala Ala Ala Ser Pro Gly Ala Pro Gln Met
485 490 495

Gln Gly Asn Pro Thr Xaa Gly Xaa Met Ala Leu Leu Gln Trp Ile Ser
500 505 510

Thr Trp Glu Val Arg Leu Trp Ala Leu Gly Ser Ile Ala Cys Ile Lys
515 520 525

Glu Lys Val
530

<210> 1445

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1445

Ser Thr Cys Arg Val Val Glu Val Gly Lys Gln Gln Gly Thr Leu Tyr
1 5 10 15

Asn Ala Arg Gln Leu Gln Tyr Gly Lys Asn Gly Pro Gly Pro Trp Asp
20 25 30

Lys Ile Arg Val Val Leu Thr Pro Arg Gly Arg Gly Gln Pro Ala Phe
35 40 45

Arg Val Ala Ser Ser Val Pro Leu Gln Ser Asp Cys Val His Leu Val
50 55 60

Gln Leu Met Ser Glu Ser Pro Ala Leu Gly Tyr Phe Ile Leu Val Arg
65 70 75 80

Thr Leu Thr Ser His Ile Gly Ser Ile Asn Ser Phe Gly Lys Glu Leu
85 90 95

Ile Ser Phe

<210> 1446

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1446

Gln Pro Pro Gln Thr Phe Trp Gln Ala Leu Gln Leu Cys Tyr Phe Ile
1 5 10 15

Gln Leu Ile Leu Gln Ile Glu Ser Asn Gly His Ser Val Ser Phe Gly
20 25 30

Arg Met Asp Gln Tyr Leu Tyr Pro Tyr Tyr Arg Arg Asp Val Glu Leu
35 40 45

Asn Gln Thr Leu Asp Arg Glu His Ala Ile Glu Met Cys Ile Ala Ala
50 55 60

Gly

65

<210> 1447

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1447

Tyr Cys Ser Ala Ala Met Ala Glu Pro Gln Pro Pro Ser Gly Gly Leu
1 5 10 15

Thr Asp Glu Ala Ala Leu Ser Cys Cys Ser Asp Ala Asp Pro Ser Thr
20 25 30

Lys Asp Phe Leu Leu Gln Gln Thr Met Leu Arg Val Lys Asp Pro Lys
35 40 45

Lys Ser Leu Asp Phe Tyr Thr Arg Val Leu Gly Met Thr Leu Ile Gln
50 55 60

Lys Cys Asp Phe Pro Ile Met Lys Phe Ser Leu Tyr Phe Leu Ala Tyr
65 70 75 80

Glu Asp Lys Asn Asp Ile Pro Lys Glu Lys Asp Glu Lys Ile Ala Trp
85 90 95

Ala Leu Ser Arg Lys Ala Thr Leu Glu Leu Thr His Asn Trp Gly Thr
100 105 110

Glu Asp Asp Xaa Thr Gln Ser Tyr His Asn Gly Asn Ser Asp Pro Arg
115 120 125

Gly Phe Gly His Ile Gly Ile Ala Val Pro Asp Val Tyr Ser Ala Cys
130 135 140

Lys Arg Phe Glu Glu Leu Gly Val Lys Phe Val Lys Lys Pro Asp Asp
145 150 155 160

Gly Lys Met Lys Gly Leu Ala Phe Ile Gln Asp Pro Asp Gly Tyr Trp
165 170 175

Ile Glu Ile Leu Asn Pro Asn Lys Met Ala Thr Leu Met
180 185

<210> 1448

<211> 219

<212> PRT

<213> Homo sapiens

<400> 1448

Phe Glu Glu Arg Tyr Thr Phe Glu Ile Pro Phe Leu Glu Ala Gln Arg
 1 5 10 15

Arg Thr Leu Leu Leu Thr Val Val Asp Phe Asp Lys Phe Ser Arg His
 20 25 30

Cys Val Ile Gly Lys Val Ser Val Pro Leu Cys Glu Val Asp Leu Val
 35 40 45

Lys Gly Gly His Trp Trp Lys Ala Leu Ile Pro Ser Ser Gln Asn Glu
 50 55 60

Val Glu Leu Gly Glu Leu Leu Leu Ser Leu Asn Tyr Leu Pro Ser Ala
 65 70 75 80

Gly Arg Leu Asn Val Asp Val Ile Arg Ala Lys Gln Leu Leu Gln Thr
 85 90 95

Asp Val Ser Gln Gly Ser Asp Pro Phe Val Lys Ile Gln Leu Val His
 100 105 110

Gly Leu Lys Leu Val Lys Thr Lys Lys Thr Ser Phe Leu Arg Gly Thr
 115 120 125

Ile Asp Pro Phe Tyr Asn Glu Ser Phe Ser Phe Lys Val Pro Gln Glu
 130 135 140

Glu Leu Glu Asn Ala Ser Leu Val Phe Thr Val Phe Gly His Asn Met
 145 150 155 160

Lys Ser Ser Asn Asp Phe Ile Gly Arg Ile Val Ile Gly Gln Tyr Ser
 165 170 175

Ser Gly Pro Ser Glu Thr Asn His Trp Arg Arg Met Leu Asn Thr His
 180 185 190

Arg Thr Ala Val Glu Gln Trp His Ser Leu Arg Ser Arg Ala Glu Cys
 195 200 205

Asp Arg Val Ser Pro Ala Ser Leu Glu Val Thr
 210 215

<210> 1449

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1449

Asp Trp Val Phe Lys Leu Ala Phe Val Asn Leu Ile Ala Leu Arg Leu
1 5 10 15

Pro Ser Asn Glu Lys Lys Ser Gln Asn Phe Tyr Leu Val Phe Val His
20 25 30

Phe Leu Leu Lys Cys Asn His Met Ile Leu Val Cys
35 40

<210> 1450

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1450

Ser Thr Pro Cys Trp Pro Leu Pro Pro Val Trp Leu Gly Cys Gly Glu
1 5 10 15

Met Cys Leu Cys Val Gln Val Pro Glu Arg Asp Ser Val Ser Ser Val
20 25 30

Ser Ser Ala Thr Ser Ser Ser Ser Ser Ala His Ser Val Asp Ser Glu
35 40 45

Asp Met Tyr Ala Asp Leu Ala Ser Pro Val Ser Ser Ala Ser Ser Arg
50 55 60

Ser Pro Ala Pro Ala Gln Thr Arg Lys Glu Lys Gly Lys Ser Lys Lys
65 70 75 80

Glu Asp Gly Val Lys Glu Glu Lys Arg Lys Arg Asp Ser Ser Thr Gln
85 90 95

Pro Pro Lys Ser Ala Lys Pro Pro Ala Gly Gly Lys Ser Ser Gln Gln
100 105 110

Pro Ser Thr Pro Gln Gln Ala Pro Pro Gly Gln Pro Gln Gln Gly Thr

115	120	125
Phe Val Ala His Lys Glu Ile Lys Leu Thr Leu Leu Asn Lys Ala Ala		
130	135	140
Asp Lys Gly Ser Arg Lys Arg Tyr Glu Pro Ser Asp Lys Asp Arg Gln		
145	150	155 160
Ser Pro Pro Pro Ala Lys Arg Pro Asn Thr Ser Pro Asp Arg Gly Ser		
165	170	175
Arg Asp Arg Lys Ser Gly Xaa Arg Leu Gly Ser Pro Lys Pro Glu Arg		
180	185	190
Gln Arg Gly Gln Asn Ser Lys Ala Pro Ala Ala Pro Ala Asp Arg Lys		
195	200	205
Arg Gln Leu Ser Pro Gln Ser Lys Ser Ser Ser Lys Val Thr Ser Val		
210	215	220
Pro Gly Lys Ala Ser Asp Pro Gly Ala Ala Ser Thr Lys Ser Gly Lys		
225	230	235 240
Ala Ser Thr Leu Ser Arg Arg Glu Glu Leu Leu Lys Gln Leu Lys Ala		
245	250	255
Val Glu Asp Ala Ile Ala Arg Lys Arg Ala Lys Ile Pro Gly Lys Ala		
260	265	270

<210> 1451

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1451

Val Met Ala Ala Cys Arg Tyr Cys Cys Ser Cys Leu Arg Leu Arg Pro
 1 5 10 15

Leu Ser Asp Gly Pro Phe Leu Leu Pro Arg Arg Asp Arg Ala Leu Thr
 20 25 30

Gln Leu Gln Val Arg Ala Leu Trp Ser Ser Ala Gly Ser Arg Ala Val
 35 40 45

Ala Val Asp Leu Gly Asn Arg Lys Leu Glu Ile Ser Ser Gly Lys Leu
 50 55 60

Ala Arg Phe Ala Asp Gly Ser Ala Val Val Gln Ser Gly Asp Thr Ala
 65 70 75 80

Val Met Val Thr Ala Val Ser Lys Thr Lys Pro Ser Pro Ser Gln Phe
 85 90 95

Met Pro Leu Val Val Asp Tyr Arg Gln Lys Ala Ala Ala Ala Gly Arg
 100 105 110

Ile Pro Thr Asn Tyr Leu Arg Arg Glu Xaa Gly Thr Ser Asp Lys Glu
 115 120 125

Ile Leu Thr Ser Arg Ile Ile Asp Arg Ser Ile Arg Pro Leu Phe Xaa
 130 135 140

Ala Gly Tyr Phe Tyr Xaa Thr Gln Val Leu Cys Asn Leu Leu Ala Val
 145 150 155 160

Asp Gly Val Asn

<210> 1452

<211> 206

<212> PRT

<213> Homo sapiens

<400> 1452

Ala Asp Cys Val Phe Val Glu Asp Val Ala Val Val Cys Glu Glu Thr
 1 5 10 15

Ala Leu Ile Thr Arg Pro Gly Ala Pro Ser Arg Arg Lys Glu Val Asp
 20 25 30

Met Met Lys Glu Ala Leu Glu Lys Leu Gln Leu Asn Ile Val Glu Met
 35 40 45
 Lys Asp Glu Asn Ala Thr Leu Asp Gly Gly Asp Val Leu Phe Thr Gly
 50 55 60
 Arg Glu Phe Phe Val Gly Leu Ser Lys Arg Thr Asn Gln Arg Gly Ala
 65 70 75 80
 Glu Ile Leu Ala Asp Thr Phe Lys Asp Tyr Ala Val Ser Thr Val Pro
 85 90 95
 Val Ala Asp Gly Leu His Leu Lys Ser Phe Cys Ser Met Ala Gly Pro
 100 105 110
 Asn Leu Ile Ala Ile Gly Ser Ser Glu Ser Ala Gln Lys Ala Leu Lys
 115 120 125
 Ile Met Gln Gln Met Ser Asp His Arg Tyr Asp Lys Leu Thr Val Pro
 130 135 140
 Asp Asp Ile Ala Ala Asn Cys Ile Tyr Leu Asn Ile Pro Asn Lys Gly
 145 150 155 160
 His Val Leu Leu His Arg Thr Pro Glu Glu Tyr Pro Glu Ser Ala Lys
 165 170 175
 Val Tyr Glu Lys Leu Lys Asp His Met Leu Ile Pro Val Ser Met Ser
 180 185 190
 Glu Leu Glu Lys Val Asp Gly Leu Leu Thr Cys Cys Gln Phe
 195 200 205

<210> 1453

<211> 645

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (608)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1453

Ala His Ala Ser Gly Lys Lys Pro Pro Asn Arg Pro Gly Ile Thr Phe
 1 5 10 15

Glu Ile Gly Ala Arg Leu Glu Ala Leu Asp Tyr Leu Gln Lys Trp Tyr
 20 25 30

Pro Ser Arg Ile Glu Lys Ile Asp Tyr Glu Glu Gly Lys Met Leu Val
 35 40 45
 His Phe Glu Arg Trp Ser His Arg Tyr Asp Glu Trp Ile Tyr Trp Asp
 50 55 60
 Ser Asn Arg Leu Arg Pro Leu Glu Arg Pro Ala Leu Arg Lys Glu Gly
 65 70 75 80
 Leu Lys Asp Glu Glu Asp Phe Phe Asp Phe Lys Ala Gly Glu Glu Val
 85 90 95
 Leu Ala Arg Trp Thr Asp Cys Arg Tyr Tyr Pro Ala Lys Ile Glu Ala
 100 105 110
 Ile Asn Lys Glu Gly Thr Phe Thr Val Gln Phe Tyr Asp Gly Val Ile
 115 120 125
 Arg Cys Leu Lys Arg Met His Ile Lys Ala Met Pro Glu Asp Ala Lys
 130 135 140
 Gly Gln Asp Trp Ile Ala Leu Val Lys Ala Ala Ala Ala Ala Ala Ala
 145 150 155 160
 Lys Asn Lys Thr Gly Ser Lys Pro Arg Thr Ser Ala Asn Ser Asn Lys
 165 170 175
 Asp Lys Asp Lys Asp Glu Arg Lys Trp Phe Lys Val Pro Ser Lys Lys
 180 185 190
 Glu Glu Thr Ser Thr Cys Ile Ala Thr Pro Asp Val Glu Lys Lys Glu
 195 200 205
 Asp Leu Pro Thr Ser Ser Glu Thr Phe Gly Leu His Val Glu Asn Val
 210 215 220
 Pro Lys Met Val Phe Pro Gln Pro Glu Ser Thr Leu Ser Asn Lys Arg
 225 230 235 240
 Lys Asn Asn Gln Gly Asn Ser Phe Gln Ala Lys Arg Ala Arg Leu Asn
 245 250 255
 Lys Ile Thr Gly Leu Leu Ala Ser Lys Ala Val Gly Val Asp Gly Ala
 260 265 270
 Glu Lys Lys Glu Asp Tyr Asn Glu Thr Ala Pro Met Leu Glu Gln Ala
 275 280 285
 Ile Ser Pro Lys Pro Gln Ser Gln Lys Lys Asn Glu Ala Asp Ile Ser
 290 295 300

Ser Ser Ala Asn Thr Gln Lys Pro Ala Leu Leu Ser Ser Thr Leu Ser
 305 310 315 320
 Ser Gly Lys Ala Arg Ser Lys Lys Cys Lys His Glu Ser Gly Asp Ser
 325 330 335
 Ser Gly Cys Ile Lys Pro Pro Lys Ser Pro Leu Ser Pro Glu Leu Ile
 340 345 350
 Gln Val Glu Asp Leu Thr Leu Val Ser Gln Leu Ser Ser Ser Val Ile
 355 360 365
 Asn Lys Thr Ser Pro Pro Gln Pro Val Asn Pro Pro Arg Pro Phe Lys
 370 375 380
 His Ser Glu Arg Arg Arg Arg Ser Gln Arg Leu Ala Thr Leu Pro Met
 385 390 395 400
 Pro Asp Asp Ser Val Glu Lys Val Ser Ser Pro Ser Pro Ala Thr Asp
 405 410 415
 Gly Lys Val Phe Ser Ile Ser Ser Gln Asn Gln Gln Glu Ser Ser Val
 420 425 430
 Pro Glu Val Pro Asp Val Ala His Leu Pro Leu Glu Lys Leu Gly Pro
 435 440 445
 Cys Leu Pro Leu Asp Leu Ser Arg Gly Ser Glu Val Thr Ala Pro Val
 450 455 460
 Ala Ser Asp Ser Ser Tyr Arg Asn Glu Cys Pro Arg Ala Glu Lys Glu
 465 470 475 480
 Asp Thr Gln Met Leu Pro Asn Pro Ser Ser Lys Ala Ile Ala Asp Gly
 485 490 495
 Arg Gly Ala Pro Ala Ala Ala Gly Ile Ser Lys Thr Glu Lys Lys Val
 500 505 510
 Lys Leu Glu Asp Lys Ser Ser Thr Ala Phe Gly Lys Arg Lys Glu Lys
 515 520 525
 Asp Lys Glu Arg Arg Glu Lys Arg Asp Lys Asp His Tyr Arg Pro Lys
 530 535 540
 Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Ser Lys Gln His Asp Tyr
 545 550 555 560
 Ser Asp Tyr Glu Asp Ser Ser Leu Glu Phe Leu Glu Arg Cys Ser Ser
 565 570 575

Pro Leu Thr Arg Ser Ser Gly Ser Ser Leu Ala Ser Arg Ser Met Phe
 580 585 590
 Thr Glu Lys Thr Thr Thr Tyr Gln Tyr Pro Arg Ala Ile Leu Ser Xaa
 595 600 605
 Asp Leu Ser Gly Glu Ser Met Cys Asn His Val Met Val Lys Thr Arg
 610 615 620
 Leu Thr Ile Pro Lys Cys Val Thr Glu Asn Lys Thr Tyr Ser Val Lys
 625 630 635 640
 Ser Met Arg Phe Lys
 645

<210> 1454

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1454

Leu Val Ile Tyr Ser Trp His Xaa Phe Phe Ser Phe Gly Phe Ala Trp
 1 5 10 15
 Leu Phe Leu Gln Val Leu Ser Arg Tyr His Ser Ala Asn His Cys Tyr
 20 25 30
 Arg Met Val Thr Ser Phe Val Leu Thr Val Gln Gln Gln Ile Trp Val
 35 40 45
 Arg Leu Asn Leu Ser Val Asn Phe Phe Phe Trp Cys Phe Phe Gly Leu
 50 55 60
 Met Thr Val Ser Leu
 65

<210> 1455

<211> 230

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (150)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (152)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1455

Leu	Ala	Gly	Pro	Arg	Arg	Trp	Arg	Val	Ser	Arg	Pro	Glu	Ala	Tyr	Arg
1						5				10				15	
Ser	Arg	Trp	Arg	Gly	Arg	Ala	Gly	Gln	Gly	Phe	Gly	Leu	Arg	Arg	Arg
			20					25					30		
Glu	Met	Ala	Ala	Gly	Gly	Arg	Met	Glu	Asp	Gly	Ser	Leu	Asp	Ile	Thr
	35						40					45			
Gln	Ser	Ile	Glu	Asp	Asp	Pro	Leu	Leu	Asp	Ala	Gln	Leu	Leu	Pro	His
	50					55					60				
His	Ser	Leu	Gln	Ala	His	Phe	Arg	Pro	Arg	Phe	His	Pro	Leu	Pro	Thr
65					70					75					80
Val	Ile	Ile	Val	Asn	Leu	Leu	Trp	Phe	Ile	His	Leu	Val	Phe	Val	Val
			85						90					95	
Leu	Ala	Phe	Leu	Thr	Gly	Val	Leu	Cys	Ser	Tyr	Pro	Asn	Pro	Asn	Glu
		100						105					110		
Asp	Lys	Cys	Pro	Gly	Asn	Tyr	Thr	Asn	Pro	Leu	Lys	Val	Gln	Thr	Val
	115						120					125			
Ile	Ile	Leu	Gly	Lys	Val	Ile	Leu	Trp	Ile	Leu	His	Leu	Leu	Leu	Glu
	130						135				140				
Cys	Tyr	Ile	Gln	Tyr	Xaa	His	Xaa	Lys	Ile	Arg	Asn	Arg	Gly	Tyr	Asn
145					150					155					160
Leu	Ile	Tyr	Arg	Ser	Thr	Arg	His	Leu	Lys	Arg	Leu	Ala	Leu	Met	Ile
			165						170					175	
Gln	Ser	Ser	Gly	Asn	Thr	Val	Leu	Leu	Leu	Ile	Leu	Cys	Met	Gln	His
			180					185					190		
Ser	Phe	Pro	Glu	Pro	Gly	Arg	Leu	Tyr	Leu	Asp	Leu	Ile	Leu	Ala	Ile
		195					200					205			
Leu	Ala	Leu	Glu	Leu	Ile	Cys	Ser	Leu	Ile	Cys	Leu	Leu	Ile	Tyr	Thr

210 215 220

Val Lys Ile Pro Glu Ile
225 230

<210> 1456
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1456
Phe Phe Phe Phe Ser Ile Ile Phe Xaa Gln Lys Gly Lys Lys Pro
1 5 10 15
Phe Lys Ser Leu Arg Asn Leu Lys Ile Asp Leu Asp Leu Thr Ala Glu
20 25 30
Gly Asp Leu Asn Ile Ile Met Ala Leu Ala Glu Lys Ile Lys Pro Gly
35 40 45
Leu His Ser Phe Ile Phe Gly Arg Pro Phe Tyr Thr Ser Val Gln Glu
50 55 60
Arg Asp Val Leu Met Thr Phe
65 70

<210> 1457
<211> 51
<212> PRT
<213> Homo sapiens

<400> 1457
Glu Tyr Asn Ser Val Asn Ala Asn Met Ile Ala Thr Leu Phe Thr Ser
1 5 10 15
Leu Leu Leu Arg Pro Pro Pro Asn Leu Met Ala Arg Gln Thr Pro Ser
20 25 30
Asp Arg Gln Arg Ala Ile Gln Phe Leu Leu Gly Phe Leu Leu Gly Ser
35 40 45
Glu Glu Asp

50

<210> 1458

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1458

Pro Arg Leu Xaa Gly Asp Phe Val Ile Arg Pro Pro Gly Ser Gly Glu
1 5 10 15

Lys Glu Pro His Pro Phe Ser Leu Cys His His Phe Gly His Pro Ala
20 25 30

Gly Leu Val Leu Gly Phe Ala Leu Thr Ser Arg Lys Asp Ala Asn Pro
35 40 45

Ser Leu Thr Pro Ala Arg Ala Ala Thr Cys Leu Cys Arg Gly Asp Pro
50 55 60

Ser Leu Met Thr Leu Arg Cys Leu Glu Pro Ser Gly Asn Gly Gly Glu
65 70 75 80

Gly Thr Arg Xaa Gln Trp Gly Thr Ala Gly Ser Ala Glu Glu Pro Ser
85 90 95

Pro Gln Ala Ala Arg Leu Ala Lys Ala Leu Arg Glu Leu Gly Gln Thr
100 105 110

Gly Trp Tyr Trp Gly Ser Met Thr Val Asn Glu Ala Lys Glu Lys Leu
115 120 125

Lys Glu Ala Pro Glu Gly Thr Phe Leu Ile Arg Asp Ser Ser His Ser
130 135 140

Asp Tyr Leu Leu Thr Ile Ser Val Lys Thr Ser Ala Gly Pro Thr Asn
145 150 155 160

Leu Arg Ile Glu Tyr Gln Asp Gly Lys Phe Arg Leu Asp Ser Ile Ile

	165		170		175
Cys Val Lys Ser Lys Leu Lys Gln Phe Asp Ser Val Val His Leu Ile					
	180		185		190
Asp Tyr Tyr Val Gln Met Cys Lys Asp Lys Arg Thr Gly Pro Glu Ala					
	195		200		205
Pro Arg Asn Gly Thr Val His Leu Tyr Leu Thr Lys Pro Leu Tyr Thr					
	210		215		220
Ser Ala Pro Ser Leu Gln His Leu Cys Arg Leu Thr Ile Asn Lys Cys					
	225		230		235
					240
Thr Gly Ala Ile Trp Gly Leu Pro Leu Pro Thr Arg Leu Lys Asp Tyr					
	245		250		255
Leu Gly Arg Ile					
	260				

<210> 1459

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1459

Ala Glu Arg Ser Thr Cys Ser Arg Ser Arg Xaa Ala Arg Ala Ala Ala
1 5 10 15

Pro Leu Pro Gly Gly Lys Gly Ser Gly Ile Phe Asp Glu Ser Thr Pro
20 25 30

Val Gln Thr Arg Gln His Leu Asn Pro Pro Gly Gly Lys Thr Ser Asp
35 40 45

Ile Phe Gly Ser Pro Val Thr Ala Thr Ser Arg Leu Ala His Pro Asn
50 55 60

Lys Pro Lys Asp His Val Phe Leu Cys Glu Gly Glu Glu Pro Lys Ser
65 70 75 80

Asp Leu Lys Ala Ala Arg Ser Ile Pro Ala Gly Ala Glu Pro Gly Glu
85 90 95

Lys Gly Ser Ala Arg Lys Ala Gly Pro Ala Lys Glu Gln Glu Pro Met
 100 105 110
 Pro Thr Val Asp Ser His Glu Pro Arg Leu Gly Pro Arg Pro Arg Ser
 115 120 125
 His Asn Lys Val Leu Asn Pro Pro Gly Gly Lys Ser Ser Ile Ser Phe
 130 135 140
 Tyr
 145

<210> 1460
 <211> 113
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1460
 Pro Ser Ile Tyr Asp Ile Leu Leu Leu Ile Ile Leu Trp Leu Xaa Ser
 1 5 10 15
 Arg Met Asp Val Glu Ser Cys Ser Gln Arg Glu Asp Arg Leu Lys Arg
 20 25 30
 Ala Xaa Ser Ala Lys Ser Ala Asn Ala Cys Asn Asn Cys Lys Cys Ser
 35 40 45
 Val Ala Thr Cys Arg Leu Asn Ser Ala Gly Pro Glu Phe Cys Ile Arg
 50 55 60
 Gly Leu Gly Tyr Ser Pro Asp Lys Gly Trp Arg His Arg Met Leu Glu
 65 70 75 80
 Phe Ser Gly His Ser Gly Lys Gly Pro Leu Cys Arg Ala Val Thr Val
 85 90 95
 Ser Cys Pro Ile Gly Pro Phe Pro Pro Val Lys Cys Lys Ser Gln Glu
 100 105 110

Ser

<210> 1461

<211> 268

<212> PRT

<213> Homo sapiens

<400> 1461

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Thr Thr Phe Arg Ala Lys Pro Gly Cys Cys Cys Ser Gly Gly Glu Asp
  1              5              10              15

Arg Gly Thr Ala Met Ala Glu Ser Ser Glu Ser Phe Thr Met Ala Ser
      20              25              30

Ser Pro Ala Gln Arg Arg Arg Gly Asn Asp Pro Leu Thr Ser Ser Pro
      35              40              45

Gly Arg Ser Ser Arg Arg Thr Asp Ala Leu Thr Ser Ser Pro Gly Arg
      50              55              60

Asp Leu Pro Pro Phe Glu Asp Glu Ser Glu Gly Leu Leu Gly Thr Glu
      65              70              75              80

Gly Pro Leu Glu Glu Glu Glu Asp Gly Glu Glu Leu Ile Gly Asp Gly
      85              90              95

Met Glu Arg Asp Tyr Arg Ala Ile Pro Glu Leu Asp Ala Tyr Glu Ala
      100              105              110

Glu Gly Leu Ala Leu Asp Asp Glu Asp Val Glu Glu Leu Thr Ala Ser
      115              120              125

Gln Arg Glu Ala Ala Glu Arg Ala Met Arg His Val Thr Gly Arg Leu
      130              135              140

Ala Gly Ala Trp Ala Ala Cys Ala Val Gly Ser Cys Met Thr Ala Met
      145              150              155              160

Arg Arg Thr Arg Ser Ala Leu Pro Ala Ser Ala Ala Ser Gly Ala Ala
      165              170              175

Thr Glu Asp Gly Glu Glu Asp Glu Glu Met Ile Glu Ser Ile Glu Asn
      180              185              190

Leu Glu Asp Leu Lys Gly His Ser Val Arg Glu Trp Val Ser Met Ala
      195              200              205

Gly Pro Arg Leu Glu Ile His His Arg Phe Lys Asn Phe Leu Arg Thr

```

210 215 220
 His Val Asp Ser His Gly His Asn Val Phe Lys Glu Arg Ile Ser Asp
 225 230 235 240
 Met Cys Lys Glu Asn Arg Glu Ser Leu Val Val Asn Tyr Glu Asp Thr
 245 250 255
 Gly Ser Gln Gly Ala Arg Ala Gly Leu Leu Pro Ala
 260 265

<210> 1462

<211> 393

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1462

Lys Ile Arg Lys Gln Ile Asn Ile Asn Asn Pro Phe Val Phe Lys His
 1 5 10 15
 Ile Ser Asn Leu Lys Ser Met Asp His Phe Asp Asp Ile Gly Pro Ser
 20 25 30
 Val Val Met Ala Ser Pro Gly Met Met Gln Ser Gly Leu Ser Arg Glu
 35 40 45
 Leu Phe Glu Ser Trp Cys Thr Asp Lys Arg Asn Gly Val Ile Ile Ala
 50 55 60
 Gly Tyr Cys Val Glu Gly Thr Leu Ala Lys His Ile Met Ser Glu Pro
 65 70 75 80
 Glu Glu Ile Thr Thr Met Ser Gly Gln Lys Leu Pro Leu Lys Met Ser
 85 90 95
 Val Asp Tyr Ile Ser Phe Ser Ala His Thr Asp Tyr Gln Gln Thr Ser
 100 105 110
 Glu Phe Ile Arg Ala Leu Lys Pro Pro His Val Ile Leu Val His Gly
 115 120 125
 Glu Gln Asn Glu Met Ala Arg Leu Lys Ala Ala Leu Ile Arg Glu Tyr
 130 135 140

Glu Asp Asn Asp Xaa Val His Ile Glu Val His Asn Pro Arg Asn Thr
145 150 155 160

Glu Ala Val Thr Leu Asn Phe Arg Gly Glu Lys Leu Ala Lys Val Met
 165 170 175

Gly Phe Leu Ala Asp Lys Lys Pro Glu Gln Gly Gln Arg Val Ser Gly
 180 185 190

Ile Leu Val Lys Arg Asn Phe Asn Tyr His Ile Leu Ser Pro Cys Asp
 195 200 205

Leu Ser Asn Tyr Thr Asp Leu Ala Met Ser Thr Val Lys Gln Thr Gln
 210 215 220

Ala Ile Pro Tyr Thr Gly Pro Phe Asn Leu Leu Cys Tyr Gln Leu Gln
225 230 235 240

Lys Leu Thr Gly Asp Val Glu Glu Leu Glu Ile Gln Glu Lys Pro Ala
 245 250 255

Leu Lys Val Phe Lys Asn Ile Thr Val Ile Gln Glu Pro Gly Met Val
 260 265 270

Val Leu Glu Trp Leu Ala Asn Pro Ser Asn Asp Met Tyr Ala Asp Thr
 275 280 285

Val Thr Thr Val Ile Leu Glu Val Gln Ser Asn Pro Lys Ile Arg Lys
 290 295 300

Gly Ala Val Gln Lys Val Ser Lys Lys Leu Glu Met His Val Tyr Ser
305 310 315 320

Lys Arg Leu Glu Ile Met Leu Gln Asp Ile Phe Gly Glu Asp Cys Val
 325 330 335

Ser Val Lys Asp Asp Ser Ile Leu Ser Val Thr Val Asp Gly Lys Thr
 340 345 350

Ala Asn Leu Asn Leu Glu Thr Arg Thr Val Glu Cys Glu Glu Gly Ser
 355 360 365

Glu Asp Asp Glu Ser Leu Arg Glu Met Val Glu Leu Ala Ala Gln Arg
 370 375 380

Leu Tyr Glu Ala Leu Thr Pro Val His
385 390

<210> 1463

<211> 163

<212> PRT

<213> Homo sapiens

<400> 1463

Leu Leu Asp Phe Pro Ala Leu Pro Lys Phe Val Leu Ala Gln Ser Pro
 1 5 10 15

Lys Ala Gly Lys Pro Ser Thr Met Thr Ser Met Thr Gln Ser Leu Arg
 20 25 30

Glu Val Ile Lys Ala Met Thr Lys Ala Arg Asn Phe Glu Arg Val Leu
 35 40 45

Gly Lys Ile Thr Leu Val Ser Ala Ala Pro Gly Lys Val Ile Cys Glu
 50 55 60

Met Lys Val Glu Glu Glu His Thr Asn Ala Ile Gly Thr Leu His Gly
 65 70 75 80

Gly Leu Thr Ala Thr Leu Val Asp Asn Ile Ser Thr Met Ala Leu Leu
 85 90 95

Cys Thr Glu Arg Gly Ala Pro Gly Val Ser Val Asp Met Asn Ile Thr
 100 105 110

Tyr Met Ser Pro Ala Lys Leu Gly Glu Asp Ile Val Ile Thr Ala His
 115 120 125

Val Leu Lys Gln Gly Lys Thr Leu Ala Phe Thr Ser Val Asp Leu Thr
 130 135 140

Asn Lys Ala Thr Gly Lys Leu Ile Ala Gln Gly Arg His Thr Lys His
 145 150 155 160

Leu Gly Asn

<210> 1464

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1464

Trp Cys Cys Phe Arg Thr Val Phe Ser Tyr Pro Phe Arg Leu Val Phe
 1 5 10 15

Cys Met Arg His His Cys Lys Lys Ile Leu Ser Leu Gln Lys Tyr Phe
 20 25 30

Tyr Asn Cys Asn Ser Ser Asn Asn Ile Cys Trp Thr Glu Lys Gly Arg
 85 90 95
 Thr Val Lys Ala Val Tyr Gly Val Ser Lys Arg Trp Ser Asp Tyr Thr
 100 105 110
 Leu His Leu Pro Thr Gly Ser Asp Val Ala Lys His Trp Met Leu His
 115 120 125
 Phe Pro Arg Ile Thr Tyr Pro Leu Val His Leu Ala Asn Trp Leu Cys
 130 135 140
 Gly Leu Asn Leu Phe Trp Ile Cys Lys Thr Cys Phe Arg Cys Leu Lys
 145 150 155 160
 Arg Leu Lys Met Ser Trp Phe Leu Pro Thr Val Leu Asp Thr Gly Gln
 165 170 175
 Gly Phe Lys Leu Val Lys Ser
 180

<210> 1466

<211> 146

<212> PRT

<213> Homo sapiens

<400> 1466

Arg Asp Gly Val Trp Ser Val Gln Val Arg Gly Gln Gly Glu Val Glu
 1 5 10 15
 Asn Gly Arg Cys Ile Thr Lys Leu Glu Asn Met Gly Phe Arg Val Gly
 20 25 30
 Gln Gly Leu Ile Glu Arg Phe Thr Lys Asp Thr Ala Arg Phe Lys Asp
 35 40 45
 Glu Leu Asp Ile Met Lys Phe Ile Cys Lys Asp Phe Trp Thr Thr Val
 50 55 60
 Phe Lys Lys Gln Ile Asp Asn Leu Arg Thr Asn His Gln Gly Ile Tyr
 65 70 75 80
 Val Leu Gln Asp Asn Lys Phe Arg Leu Leu Thr Gln Met Ser Ala Gly
 85 90 95
 Lys Gln Tyr Leu Glu His Ala Ser Lys Tyr Leu Ala Phe Thr Cys Gly
 100 105 110
 Leu Ile Arg Gly Gly Leu Ser Asn Leu Gly Ile Lys Ser Ile Val Thr

115 120 125
 Ala Glu Val Ser Ser Met Pro Ala Cys Lys Phe Gln Val Met Ile Gln
 130 135 140
 Lys Leu
 145

 <210> 1467
 <211> 277
 <212> PRT
 <213> Homo sapiens

 <400> 1467
 Ile Arg His Ser His Thr Gly Gln Gly Ser Cys Trp Val Ala Thr Leu
 1 5 10 15
 Ala Ser Ala Met Ile Pro Pro Ala Asp Ser Leu Leu Lys Tyr Asp Thr
 20 25 30
 Pro Val Leu Val Ser Arg Asn Thr Glu Lys Arg Ser Pro Lys Ala Arg
 35 40 45
 Leu Leu Lys Val Ser Pro Gln Gln Pro Gly Pro Ser Gly Ser Ala Pro
 50 55 60
 Gln Pro Pro Lys Thr Lys Leu Pro Ser Thr Pro Cys Val Pro Asp Pro
 65 70 75 80
 Thr Lys Gln Ala Glu Glu Ile Leu Asn Ala Ile Leu Pro Pro Arg Glu
 85 90 95
 Trp Val Glu Asp Thr Gln Leu Trp Ile Gln Gln Val Ser Ser Thr Pro
 100 105 110
 Ser Thr Arg Met Asp Val Val His Leu Gln Glu Gln Leu Asp Leu Lys
 115 120 125
 Leu Gln Gln Arg Gln Ala Arg Glu Thr Gly Ile Cys Pro Val Arg Arg
 130 135 140
 Glu Leu Tyr Ser Gln Cys Phe Asp Glu Leu Ile Arg Glu Val Thr Ile
 145 150 155 160
 Asn Cys Ala Glu Arg Gly Leu Leu Leu Arg Val Arg Asp Glu Ile
 165 170 175
 Arg Met Thr Ile Ala Ala Tyr Gln Thr Leu Tyr Glu Ser Ser Val Ala
 180 185 190

Phe Gly Met Arg Lys Ala Leu Gln Ala Glu Gln Gly Lys Ser Asp Met
195 200 205

Glu Arg Lys Ile Ala Glu Leu Glu Thr Glu Lys Arg Asp Leu Glu Arg
210 215 220

Gln Val Asn Glu Gln Lys Ala Lys Cys Glu Ala Thr Glu Lys Arg Glu
225 230 235 240

Ser Glu Arg Arg Gln Val Glu Glu Lys Lys His Asn Glu Glu Ile Gln
245 250 255

Phe Leu Lys Arg Thr Asn Gln Gln Leu Lys Ala Gln Leu Glu Gly Ile
260 265 270

Ile Ala Pro Lys Lys
275

<210> 1468

<211> 263

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1468

Arg Pro Ala Ala Ala Xaa Ser Gly Gly Thr Gly Ser Gly Arg Gly Ser
1 5 10 15

Arg Pro Glu Pro Ser Arg Ala Glu Pro Ser Arg Ser Gly Arg Arg Arg
20 25 30

Pro Ala Arg Arg Ala Ala Thr Met Ser Val Phe Gly Lys Leu Phe Gly
35 40 45

Ala Gly Gly Gly Lys Ala Gly Lys Gly Gly Pro Thr Pro Gln Glu Ala
50 55 60

Ile Gln Arg Leu Arg Asp Thr Glu Glu Met Leu Ser Lys Lys Gln Glu
65 70 75 80

Phe Leu Glu Lys Lys Ile Glu Gln Glu Leu Thr Ala Ala Lys Lys His
85 90 95

Gly Thr Lys Asn Lys Arg Ala Ala Leu Gln Ala Leu Lys Arg Lys Lys

100	105	110
Arg Tyr Glu Lys Gln Leu Ala Gln Ile Asp Gly Thr Leu Ser Thr Ile		
115	120	125
Glu Phe Gln Arg Glu Ala Leu Glu Asn Ala Asn Thr Asn Thr Glu Val		
130	135	140
Leu Lys Asn Met Gly Tyr Ala Ala Lys Ala Met Lys Ala Ala His Asp		
145	150	155
Asn Met Asp Ile Asp Lys Val Asp Glu Leu Met Gln Asp Ile Ala Asp		
165	170	175
Gln Gln Glu Leu Ala Glu Glu Ile Ser Thr Ala Ile Ser Lys Pro Val		
180	185	190
Gly Phe Gly Glu Glu Phe Asp Glu Asp Glu Leu Met Ala Glu Leu Glu		
195	200	205
Glu Leu Glu Gln Glu Glu Leu Asp Lys Asn Leu Leu Glu Ile Ser Gly		
210	215	220
Pro Glu Thr Val Pro Leu Pro Asn Val Pro Ser Ile Ala Leu Pro Ser		
225	230	235
Lys Pro Ala Lys Lys Lys Glu Glu Glu Asp Asp Asp Met Lys Glu Leu		
245	250	255
Glu Asn Trp Ala Gly Ser Met		
260		

<210> 1469

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1469

Phe Arg Pro Trp Thr Leu Asp Leu Val Asp Glu Gly His Trp Pro Gly

```

      1             5             10             15
Pro Arg Val Phe Gly Gly Arg Arg Gly Leu Ala Trp Val Pro Thr Gly
      20             25             30
Cys Leu Thr Ser Ser Cys Ser Leu His Leu Gly Cys Val Gly Gln Gly
      35             40             45
Leu Cys Cys His Ser Arg Asn Arg Phe Ser Ser Val Gly Leu Pro Phe
      50             55             60
Leu His Pro Gly Leu Lys Trp Met Pro Asp Ala Asn Pro Ser Ser Gly
      65             70             75             80
His Val Gln Pro Ala Gly Gln Pro Arg Gly Ser Leu Ser Ser Arg Ala
      85             90             95
Lys Asp Ser Arg Xaa Pro Phe Ser Leu Leu Ala Phe Leu Leu Cys Pro
      100            105            110
Ala Val Ala Ala Gly Xaa Ser Ser Cys Ser Arg Arg Glu Thr Val Leu
      115            120            125
Pro Leu Ser Pro Ser Leu Pro His Pro Ser Ser Cys Pro Gly Asn Leu
      130            135            140
Glu Pro Leu Gly Ala Glu Leu Asp Gly Gly Pro Ala Ala Ser Met Cys
      145            150            155            160
Thr Lys Arg Ser Pro Phe Gln Gly Lys Arg Thr Gly Trp Arg Met Glu
      165            170            175
Gly Lys Pro Pro Arg Leu Arg Glu Leu Gln Glu Gly Thr Leu Pro Gly
      180            185            190

```

<210> 1470

<211> 260

<212> PRT

<213> Homo sapiens

<400> 1470

```

Arg Lys Cys Leu Tyr Leu Val Ala Gly Lys Trp Glu Glu Arg Lys Val
  1             5             10             15
Val Met Ala Ala Ile Ala Ala Ser Glu Val Leu Val Asp Ser Ala Glu
      20             25             30

```

Glu Gly Ser Leu Ala Ala Ala Glu Leu Ala Ala Gln Lys Arg Glu
35 40 45

Gln Arg Leu Arg Lys Phe Arg Glu Leu His Leu Met Arg Asn Glu Ala
50 55 60

Arg Lys Leu Asn His Gln Glu Val Val Glu Glu Asp Lys Arg Leu Lys
65 70 75 80

Leu Pro Ala Asn Trp Glu Ala Lys Lys Ala Arg Leu Glu Trp Glu Leu
85 90 95

Lys Glu Glu Glu Lys Lys Lys Glu Cys Ala Ala Arg Gly Glu Asp Tyr
100 105 110

Glu Lys Val Lys Leu Leu Glu Ile Ser Ala Glu Asp Ala Glu Arg Trp
115 120 125

Glu Arg Lys Lys Lys Arg Lys Asn Pro Asp Leu Gly Phe Ser Asp Tyr
130 135 140

Ala Ala Ala Gln Leu Arg Gln Tyr His Arg Leu Thr Lys Gln Ile Lys
145 150 155 160

Pro Asp Met Glu Thr Tyr Glu Arg Leu Arg Glu Lys His Gly Glu Glu
165 170 175

Phe Phe Pro Thr Ser Asn Ser Leu Leu His Gly Thr His Val Pro Ser
180 185 190

Thr Glu Glu Ile Asp Arg Met Val Ile Asp Leu Glu Lys Gln Ile Glu
195 200 205

Lys Arg Asp Lys Tyr Ser Arg Arg Arg Pro Tyr Asn Asp Asp Ala Asp
210 215 220

Ile Asp Tyr Ile Asn Glu Arg Asn Ala Lys Phe Asn Lys Lys Ala Glu
225 230 235 240

Arg Phe Tyr Gly Lys Tyr Thr Ala Glu Ile Lys Gln Asn Leu Glu Arg
245 250 255

Gly Thr Ala Val
260

<210> 1471

<211> 121

<212> PRT

<213> Homo sapiens

<400> 1471

```
Leu Val Lys Gly Met Thr Val Leu Glu Ala Val Leu Glu Ile Gln Ala
 1             5             10             15

Ile Thr Gly Ser Arg Leu Leu Ser Met Val Pro Gly Pro Ala Arg Pro
      20             25             30

Pro Gly Ser Cys Trp Asp Pro Thr Gln Cys Thr Arg Thr Trp Leu Leu
      35             40             45

Ser His Thr Pro Arg Arg Arg Trp Ile Ser Gly Leu Pro Arg Ala Ser
      50             55             60

Cys Arg Leu Gly Glu Glu Pro Pro Pro Leu Pro Tyr Cys Asp Gln Ala
      65             70             75             80

Tyr Gly Glu Glu Leu Ser Ile Arg His Arg Glu Thr Trp Ala Trp Leu
      85             90             95

Ser Arg Thr Asp Thr Ala Trp Pro Gly Ala Pro Gly Val Lys Gln Ala
      100            105            110

Arg Ile Leu Gly Glu Leu Leu Leu Val
      115            120
```

<210> 1472

<211> 298

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1472

```
Pro Cys Ala Trp Arg Ala Ala Arg Gly Gly Pro Cys Ala Ala Pro Leu
```


1	5	10	15
Gly Leu Arg	Glu Arg Gly Arg Val	Ser Xaa Arg Leu Leu	Gly Pro Ala
20	25	30	
Ala Ala Arg	Ala Leu Leu Leu Gly	Leu Pro Gly Arg Thr	Leu Glu Ala
35	40	45	
Ala Ser Gly	Arg Ser Trp Leu Ala	Ala Ala Arg Asp Arg	Pro Ala Glu
50	55	60	
Pro Leu Phe	Gly Arg Gly Glu Gly Gly	Ser Gln Ala Ser Gly	Xaa Ala
65	70	75	80
Gly Ala Ala	Ala Glu Ala Pro Gly	Xaa Gln Trp Gly Pro	Ala Ser Thr
85	90	95	
Pro Ser Leu	Tyr Glu Asn Pro Trp Thr	Ile Pro Asn Met Leu	Ser Met
100	105	110	
Thr Arg Ile	Gly Leu Ala Pro Val	Leu Gly Tyr Leu Ile	Ile Glu Glu
115	120	125	
Asp Phe Asn	Ile Ala Leu Gly Val	Phe Ala Leu Ala Gly	Leu Thr Asp
130	135	140	
Leu Leu Asp	Gly Phe Ile Ala Arg	Asn Trp Ala Asn Gln	Arg Ser Ala
145	150	155	160
Leu Gly Ser	Ala Leu Asp Pro Leu	Ala Asp Lys Ile Leu	Ile Ser Ile
165	170	175	
Leu Tyr Val	Ser Leu Thr Tyr Ala	Asp Leu Ile Pro Val	Pro Leu Thr
180	185	190	
Tyr Met Ile	Ile Ser Arg Asp Val	Met Leu Ile Ala Ala	Val Phe Tyr
195	200	205	
Val Arg Tyr	Arg Thr Leu Pro Thr	Pro Arg Thr Leu Ala	Lys Tyr Phe
210	215	220	
Asn Pro Cys	Tyr Ala Thr Ala Arg	Leu Lys Pro Thr Phe	Ile Ser Lys
225	230	235	240
Val Asn Thr	Ala Val Gln Leu Ile	Leu Val Ala Ala Ser	Leu Ala Ala
245	250	255	
Pro Val Phe	Asn Tyr Ala Asp Ser	Ile Tyr Leu Gln Ile	Leu Trp Cys
260	265	270	
Phe Thr Ala	Phe Thr Thr Ala Ala	Ser Ala Tyr Ser Tyr	Tyr His Tyr

275

280

285

Gly Arg Lys Thr Val Gln Val Ile Lys Asp
290 295

<210> 1473

<211> 526

<212> PRT

<213> Homo sapiens

<400> 1473

Val Ala Leu Gly Ala Ala Met Ser Ala Gly Glu Val Glu Arg Leu Val
1 5 10 15

Ser Glu Leu Ser Gly Gly Thr Gly Gly Asp Glu Glu Glu Glu Trp Leu
20 25 30

Tyr Gly Asp Glu Asn Glu Val Glu Arg Pro Glu Glu Glu Asn Ala Ser
35 40 45

Ala Asn Pro Pro Ser Gly Ile Glu Asp Glu Thr Ala Glu Asn Gly Val
50 55 60

Pro Lys Pro Lys Val Thr Glu Thr Glu Asp Asp Ser Asp Ser Asp Ser
65 70 75 80

Asp Asp Asp Glu Asp Asp Val His Val Thr Ile Gly Asp Ile Lys Thr
85 90 95

Gly Ala Pro Gln Tyr Gly Ser Tyr Gly Thr Ala Pro Val Asn Leu Asn
100 105 110

Ile Lys Thr Gly Gly Arg Val Tyr Gly Thr Thr Gly Thr Lys Val Lys
115 120 125

Gly Val Asp Leu Asp Ala Pro Gly Ser Ile Asn Gly Val Pro Leu Leu
130 135 140

Glu Val Asp Leu Asp Ser Phe Glu Asp Lys Pro Trp Arg Lys Pro Gly
145 150 155 160

Ala Asp Leu Ser Asp Tyr Phe Asn Tyr Gly Phe Asn Glu Asp Thr Trp
165 170 175

Lys Ala Tyr Cys Glu Lys Gln Lys Arg Ile Arg Met Gly Leu Glu Val
180 185 190

Ile Pro Val Thr Ser Thr Thr Asn Lys Ile Thr Val Gln Gln Gly Arg
195 200 205

Thr Gly Asn Ser Glu Lys Glu Thr Ala Leu Pro Ser Thr Lys Ala Glu
 210 215 220
 Phe Thr Ser Pro Pro Ser Leu Phe Lys Thr Gly Leu Pro Pro Ser Arg
 225 230 235 240
 Arg Leu Pro Gly Ala Ile Asp Val Ile Gly Gln Thr Ile Thr Ile Ser
 245 250 255
 Arg Val Glu Gly Arg Arg Arg Ala Asn Glu Asn Ser Asn Ile Gln Val
 260 265 270
 Leu Ser Glu Arg Ser Ala Thr Glu Val Asp Asn Asn Phe Ser Lys Pro
 275 280 285
 Pro Pro Phe Phe Pro Pro Gly Ala Pro Pro Thr His Leu Pro Pro Pro
 290 295 300
 Pro Phe Leu Pro Pro Pro Pro Thr Val Ser Thr Ala Pro Pro Leu Ile
 305 310 315 320
 Pro Pro Pro Gly Phe Pro Pro Pro Pro Gly Ala Pro Pro Pro Ser Leu
 325 330 335
 Ile Pro Thr Ile Glu Ser Gly His Ser Ser Gly Tyr Asp Ser Arg Ser
 340 345 350
 Ala Arg Ala Phe Pro Tyr Gly Asn Val Ala Phe Pro His Leu Pro Gly
 355 360 365
 Ser Ala Pro Ser Trp Pro Ser Leu Val Asp Thr Ser Lys Gln Trp Asp
 370 375 380
 Tyr Tyr Ala Arg Arg Glu Lys Asp Arg Asp Arg Glu Arg Asp Arg Asp
 385 390 395 400
 Arg Glu Arg Asp Arg Asp Arg Asp Arg Glu Arg Glu Arg Thr Arg Glu
 405 410 415
 Arg Glu Arg Glu Arg Asp His Ser Pro Thr Pro Ser Val Phe Asn Ser
 420 425 430
 Asp Glu Glu Arg Tyr Arg Tyr Arg Glu Tyr Ala Glu Arg Gly Tyr Glu
 435 440 445
 Arg His Arg Ala Ser Arg Glu Lys Glu Glu Arg His Arg Glu Arg Arg
 450 455 460
 His Arg Glu Lys Glu Glu Thr Arg His Lys Ser Ser Arg Ser Asn Ser
 465 470 475 480

Arg Arg Arg His Glu Ser Glu Glu Gly Asp Ser His Arg Arg His Lys
485 490 495

His Lys Lys Ser Lys Arg Ser Lys Glu Gly Lys Glu Ala Gly Ser Glu
500 505 510

Pro Ala Pro Glu Gln Glu Ser Thr Glu Ala Thr Pro Ala Glu
515 520 525

<210> 1474

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1474

Ile Met Val Arg Pro Gly Xaa Thr Leu Arg Leu Asp Lys Lys Met Leu
1 5 10 15

Leu Lys Arg Ser Ser Phe Lys Arg Ser Cys Ser Cys Val Lys Lys Leu
20 25 30

Gln Val Trp Phe Val Leu Val Cys Asp His Glu Cys Thr Met Lys Lys
35 40 45

Thr Leu Asp Ala Ala Phe Phe Ser Ser Glu Asp Ser Leu Gly Ile Pro
50 55 60

Glu Asp Ser Ser Leu Arg
65 70

<210> 1475

<211> 345

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1475

Lys Lys Val Val Ser Tyr Phe Phe Arg Trp Gln Ser Leu Leu Ile Met
1 5 10 15

Ile Met Met Phe Lys Ile Pro Pro Ser Asp Gly Leu Leu Ile Leu Pro
20 25 30

Cys Tyr Gly Ser Met Thr Thr Asp Gln Gln Arg Xaa Ile Phe Leu Pro
35 40 45

Pro Pro Pro Gly Ile Xaa Lys Cys Val Ile Ser Thr Asn Ile Ser Ala
50 55 60

Thr Ser Leu Thr Ile Asp Gly Ile Arg Tyr Val Val Asp Gly Gly Phe
65 70 75 80

Val Lys Gln Leu Asn His Asn Pro Arg Leu Gly Leu Asp Ile Leu Glu
85 90 95

Val Val Pro Ile Ser Lys Ser Glu Ala Leu Gln Arg Ser Gly Arg Ala
100 105 110

Gly Arg Thr Ser Ser Gly Lys Cys Phe Arg Ile Tyr Ser Lys Asp Phe
115 120 125

Xaa Asn Gln Cys Met Pro Asp His Val Ile Pro Glu Ile Lys Arg Thr
130 135 140

Ser Leu Thr Ser Val Val Leu Thr Leu Lys Cys Leu Ala Ile Xaa Asp
145 150 155 160

Val Ile Arg Phe Pro Xaa Leu Asp Pro Pro Asn Glu Arg Leu Ile Leu

	165		170		175
Glu Ala Leu Lys Gln Leu Tyr Gln Cys Asp Ala Ile Asp Arg Ser Gly					
180		185		190	
His Val Thr Arg Leu Gly Leu Ser Met Val Glu Phe Pro Leu Pro Pro					
195		200		205	
His Leu Thr Cys Ala Val Ile Lys Ala Ala Ser Leu Asp Cys Glu Asp					
210		215		220	
Leu Leu Leu Pro Ile Ala Ala Met Leu Ser Val Glu Asn Val Phe Ile					
225		230		235	240
Arg Pro Val Asp Pro Glu Tyr Gln Lys Glu Ala Glu Gln Arg His Arg					
	245		250		255
Glu Leu Ala Ala Lys Ala Gly Gly Phe Asn Asp Phe Ala Thr Leu Ala					
	260		265		270
Val Ile Phe Glu Gln Cys Lys Ser Ser Gly Ala Pro Ala Ser Trp Cys					
	275		280		285
Gln Lys His Trp Ile His Trp Arg Cys Leu Phe Ser Ala Phe Arg Val					
	290		295		300
Glu Ala Gln Leu Arg Glu Leu Ile Arg Lys Leu Lys Gln Gln Ser Asp					
305		310		315	320
Ser Gln Lys Arg Pro Leu Lys Ala Leu Asn Met Lys Tyr Tyr Glu Asp					
	325		330		335
Val Phe Val Arg Ala Ile Ser Lys Met					
	340		345		

<210> 1476

<211> 195

<212> PRT

<213> Homo sapiens

<400> 1476

Tyr Leu Leu Phe Val Lys Asn Met Ser Ser Leu Glu Ile Ser Ser Ser			
1	5	10	15
Cys Phe Ser Leu Glu Thr Lys Leu Pro Leu Ser Pro Pro Leu Val Glu			
	20	25	30
Asp Ser Ala Phe Glu Pro Ser Arg Lys Asp Met Asp Glu Val Glu Glu			
	35	40	45

Lys Ser Lys Asp Val Ile Asn Phe Thr Ala Glu Lys Leu Ser Val Asp
50 55 60

Glu Val Ser Gln Leu Val Ile Ser Pro Leu Cys Gly Ala Ile Ser Leu
65 70 75 80

Phe Val Gly Thr Thr Arg Asn Asn Phe Glu Gly Lys Lys Val Ile Ser
85 90 95

Leu Glu Tyr Glu Ala Tyr Leu Pro Met Ala Glu Asn Glu Val Arg Lys
100 105 110

Ile Cys Ser Asp Ile Arg Gln Lys Trp Pro Val Lys His Ile Ala Val
115 120 125

Phe His Arg Leu Gly Leu Val Pro Val Ser Glu Ala Ser Ile Ile Ile
130 135 140

Ala Val Ser Ser Ala His Arg Ala Ala Ser Leu Glu Ala Val Ser Tyr
145 150 155 160

Ala Ile Asp Thr Leu Lys Ala Lys Val Pro Ile Trp Lys Lys Glu Ile
165 170 175

Tyr Glu Glu Ser Ser Thr Trp Lys Gly Asn Lys Glu Cys Phe Trp Ala
180 185 190

Ser Asn Ser
195

<210> 1477

<211> 387

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (370)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (374)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (378)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (379)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1477

Asp Ser Glu Asp Asn Pro Gln Thr Leu Leu Phe Ser Ala Thr Cys Pro
1 5 10 15

Gln Trp Val Tyr Lys Val Ala Lys Lys Tyr Met Lys Ser Arg Tyr Glu
20 25 30

Gln Val Xaa Leu Val Gly Lys Met Thr Gln Lys Ala Ala Thr Thr Val
35 40 45

Glu His Leu Ala Ile Gln Cys His Trp Ser Gln Arg Pro Ala Val Ile
50 55 60

Gly Asp Val Leu Gln Val Tyr Ser Gly Ser Glu Gly Arg Ala Ile Ile
65 70 75 80

Phe Cys Glu Thr Lys Lys Asn Val Thr Glu Met Ala Met Asn Pro His
85 90 95

Ile Lys Gln Asn Ala Gln Cys Leu His Gly Asp Ile Ala Gln Ser Gln
100 105 110

Arg Glu Ile Thr Leu Lys Gly Phe Arg Glu Gly Ser Phe Lys Val Leu
115 120 125

Val Ala Thr Asn Val Ala Ala Arg Gly Leu Asp Ile Pro Glu Val Asp
130 135 140

Leu Val Ile Gln Ser Ser Pro Pro Gln Asp Val Glu Ser Tyr Ile His
145 150 155 160

Arg Ser Gly Arg Thr Gly Arg Ala Gly Arg Thr Gly Ile Cys Ile Cys
165 170 175

Phe Tyr Gln Pro Arg Glu Arg Gly Gln Leu Arg Tyr Val Glu Gln Lys
180 185 190

Ala Gly Ile Thr Phe Lys Arg Val Gly Val Pro Ser Thr Met Asp Leu
195 200 205

Val Lys Ser Lys Ser Met Asp Ala Ile Arg Ser Leu Ala Ser Val Ser
210 215 220

Tyr Ala Ala Val Asp Phe Phe Arg Pro Ser Ala Gln Arg Leu Ile Glu
225 230 235 240

Glu Lys Gly Ala Val Asp Ala Leu Ala Ala Ala Leu Ala His Ile Ser
245 250 255

Gly Ala Ser Ser Phe Glu Pro Arg Ser Leu Ile Thr Ser Asp Lys Gly
260 265 270

Phe Val Thr Met Thr Leu Glu Ser Leu Glu Glu Ile Gln Asp Val Ser
275 280 285

Cys Ala Trp Lys Glu Leu Asn Arg Lys Leu Ser Ser Asn Ala Val Ser
290 295 300

Gln Ile Thr Arg Met Cys Leu Leu Lys Gly Asn Met Gly Val Cys Phe
305 310 315 320

Asp Val Pro Thr Thr Glu Ser Glu Arg Leu Gln Ala Glu Trp His Asp
325 330 335

Ser Asp Trp Ile Leu Ser Val Pro Ala Lys Leu Pro Glu Ile Glu Glu
340 345 350

Tyr Tyr Asp Gly Asn Thr Ser Ser Asn Ser Arg Gln Arg Ser Gly Trp
355 360 365

Ser Xaa Gly Arg Ser Xaa Arg Ser Ala Xaa Xaa Gly Gly Arg Ser Gly
370 375 380

Gly Gly Gln
385

<210> 1478

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1478

Thr Gly Ala Cys His His Ala Gln Leu Asn Phe Val Phe Leu Val Glu
1 5 10 15

Thr Gly Phe His His Val Gly Gln Asp Gly Leu Asn Leu Leu Thr Leu
20 25 30

Arg Ser Ala His Leu Ser Leu Pro Lys Cys Trp Asp Tyr Arg Arg Asn
 35 40 45

Thr Arg Ala Trp Pro Val Leu
 50 55

<210> 1479

<211> 559

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (555)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1479

Ala Arg Ala Asp Gly Arg Asp Gly Arg Gly Gly Arg Arg Ala Pro Trp
 1 5 10 15

Arg Ala Leu Thr Ser Ala Ser Pro Arg Ala Ala Leu Pro Gln Ala Gln
 20 25 30

Cys Pro Glu Leu Gly Ala Ser Pro Ala Arg Gly Thr Leu Leu Ala Lys
 35 40 45

Glu Val Val Ser Pro Val Leu Ser Ser Arg Pro Gly Gly Pro Lys Leu
 50 55 60

Pro Asp Asp Glu Glu Pro Pro Asn Met Ala Ser Glu Ser Gly Lys Leu
 65 70 75 80

Trp Gly Gly Arg Phe Val Gly Ala Val Asp Pro Ile Met Glu Lys Phe
 85 90 95

Asn Ala Ser Ile Ala Tyr Asp Arg His Leu Trp Glu Val Asp Val Gln
 100 105 110

Gly Ser Lys Ala Tyr Ser Arg Gly Leu Glu Lys Ala Gly Leu Leu Thr
 115 120 125

Lys Ala Glu Met Asp Gln Ile Leu His Gly Leu Asp Lys Val Ala Glu
 130 135 140

Glu Trp Ala Gln Gly Thr Phe Lys Leu Asn Ser Asn Asp Glu Asp Ile
 145 150 155 160

His Thr Ala Asn Glu Arg Arg Leu Lys Glu Leu Ile Gly Ala Thr Ala
 165 170 175

Gly Lys Leu His Thr Gly Arg Ser Arg Asn Asp Gln Val Val Thr Asp
 180 185 190
 Leu Arg Leu Trp Met Arg Gln Thr Cys Ser Thr Leu Ser Gly Leu Leu
 195 200 205
 Trp Glu Leu Ile Arg Thr Met Val Asp Arg Ala Glu Ala Glu Arg Asp
 210 215 220
 Val Leu Phe Pro Gly Tyr Thr His Leu Gln Arg Ala Gln Pro Ile Arg
 225 230 235 240
 Trp Ser His Trp Ile Leu Ser His Ala Val Ala Leu Thr Arg Asp Ser
 245 250 255
 Glu Arg Leu Leu Glu Val Arg Lys Arg Ile Asn Val Leu Pro Leu Gly
 260 265 270
 Ser Gly Ala Ile Ala Gly Asn Pro Leu Gly Val Asp Arg Glu Leu Leu
 275 280 285
 Arg Ala Glu Leu Asn Phe Gly Ala Ile Thr Leu Asn Ser Met Asp Ala
 290 295 300
 Thr Ser Glu Arg Asp Phe Val Ala Glu Phe Leu Phe Trp Ala Ser Leu
 305 310 315 320
 Cys Met Thr His Leu Ser Arg Met Ala Glu Asp Leu Ile Leu Tyr Cys
 325 330 335
 Thr Lys Glu Phe Ser Phe Val Gln Leu Ser Asp Ala Tyr Ser Thr Gly
 340 345 350
 Ser Ser Leu Met Pro Gln Lys Lys Asn Pro Asp Ser Leu Glu Leu Ile
 355 360 365
 Arg Ser Lys Ala Gly Arg Val Phe Gly Arg Cys Ala Gly Leu Leu Met
 370 375 380
 Thr Leu Lys Gly Leu Pro Ser Thr Tyr Asn Lys Asp Leu Gln Glu Asp
 385 390 395 400
 Lys Glu Ala Val Phe Glu Val Ser Asp Thr Met Ser Ala Val Leu Gln
 405 410 415
 Val Ala Thr Gly Val Ile Ser Thr Leu Gln Ile His Gln Glu Asn Met
 420 425 430
 Gly Gln Ala Leu Ser Pro Asp Met Leu Ala Thr Asp Leu Ala Tyr Tyr
 435 440 445

Leu Val Arg Lys Gly Met Pro Phe Arg Gln Ala His Glu Ala Ser Gly
 450 455 460
 Lys Ala Val Phe Met Ala Glu Thr Lys Gly Val Ala Leu Asn Gln Leu
 465 470 475 480
 Ser Leu Gln Glu Leu Gln Thr Ile Ser Pro Leu Phe Ser Gly Asp Val
 485 490 495
 Ile Cys Val Trp Asp Tyr Gly His Ser Val Glu Gln Tyr Gly Ala Leu
 500 505 510
 Gly Ala Leu Arg Ala Pro Ala Ser Thr Gly Arg Ser Ala Arg Cys Gly
 515 520 525
 Arg Tyr Cys Arg His Ser Arg Pro Arg Ser Ser His Thr Cys Pro Leu
 530 535 540
 Ile Lys Trp Ala Arg Glu Glu Lys Lys Lys Xaa Lys Lys Lys Phe
 545 550 555

<210> 1480

<211> 200

<212> PRT

<213> Homo sapiens

<400> 1480

Ser Leu Gly Glu Leu Pro Thr Asp Pro Ser Ser Asp Glu Pro Val Phe
 1 5 10 15
 His Ile Ser His Ile Asp Arg Val Tyr Thr Leu Arg Thr Asp Asn Ile
 20 25 30
 Asn Glu Arg Thr Thr Trp Val Gln Lys Ile Lys Ala Ala Ser Glu Gln
 35 40 45
 Tyr Ile Asp Thr Glu Lys Lys Lys Arg Glu Lys Ala Tyr Gln Ala Arg
 50 55 60
 Ser Gln Lys Thr Ser Gly Ile Gly Arg Leu Met Val His Val Ile Glu
 65 70 75 80
 Ala Thr Glu Leu Lys Ala Cys Lys Pro Asn Gly Lys Ser Asn Pro Tyr
 85 90 95
 Cys Glu Ile Ser Met Gly Ser Gln Ser Tyr Thr Thr Arg Thr Ile Gln
 100 105 110

Asp Thr Leu Asn Pro Lys Trp Asn Phe Asn Cys Gln Phe Phe Ile Lys
 115 120 125
 Asp Leu Tyr Gln Asp Val Leu Cys Leu Thr Leu Phe Asp Arg Asp Gln
 130 135 140
 Phe Ser Pro Asp Asp Phe Leu Gly Arg Thr Glu Ile Pro Val Ala Lys
 145 150 155 160
 Ile Arg Thr Glu Gln Glu Ser Lys Gly Pro Met Thr Arg Arg Leu Leu
 165 170 175
 Leu His Glu Val Pro Thr Gly Glu Val Trp Val Arg Phe Asp Leu Gln
 180 185 190
 Leu Phe Glu Gln Lys Thr Leu Leu
 195 200

<210> 1481

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1481

Gln Leu Leu Leu Leu Pro Pro Lys Ala Pro Arg Asn Pro Phe Leu Pro
 1 5 10 15
 Cys Pro Gly Ser Arg Thr Pro Gly Tyr Ile Trp Lys Val Glu Met Trp
 20 25 30
 Gly Ser Cys Xaa Leu Glu Tyr Tyr Val Ser Pro Pro Ser Ala Val Phe
 35 40 45
 Ser Glu His Val Cys Cys Pro Trp Trp Glu Arg Gly His Cys Ala Val
 50 55 60
 Val His Arg Cys Leu Ser Phe Thr Val Gly Leu Ser Val Cys Leu Ser
 65 70 75 80
 Phe Leu Ser Ala Ala Gln Met Glu Asn Asn Tyr Leu Leu His Trp Arg
 85 90 95
 Glu Arg Lys Ser Leu Arg Ile Pro Lys Gly Thr Leu Ala
 100 105

<210> 1482

<211> 205

<212> PRT

<213> Homo sapiens

<400> 1482

Asp Pro Arg Val Arg Ala Ala Arg Thr Ala Phe Gly Ala Val Cys Arg
1 5 10 15

Arg Leu Trp Gln Gly Leu Gly Asn Phe Ser Val Asn Thr Ser Lys Gly
20 25 30

Asn Thr Ala Lys Asn Gly Gly Leu Leu Leu Ser Thr Asn Met Lys Trp
35 40 45

Val Gln Phe Ser Asn Leu His Val Asp Val Pro Lys Asp Leu Thr Lys
50 55 60

Pro Val Val Thr Ile Ser Asp Glu Pro Asp Ile Leu Tyr Lys Arg Leu
65 70 75 80

Ser Val Leu Val Lys Gly His Asp Lys Ala Val Leu Asp Ser Tyr Glu
85 90 95

Tyr Phe Ala Val Leu Ala Ala Lys Glu Leu Gly Ile Ser Ile Lys Val
100 105 110

His Glu Pro Pro Arg Lys Ile Glu Arg Phe Thr Leu Leu Gln Ser Val
115 120 125

His Ile Tyr Lys Lys His Arg Val Gln Tyr Glu Met Arg Thr Leu Tyr
130 135 140

Arg Cys Leu Glu Leu Glu His Leu Thr Gly Ser Thr Ala Asp Val Tyr
145 150 155 160

Leu Glu Tyr Ile Gln Arg Asn Leu Pro Glu Gly Val Ala Met Glu Val
165 170 175

Thr Lys Thr Gln Leu Glu Gln Leu Pro Glu His Ile Lys Glu Pro Ile
180 185 190

Trp Glu Thr Leu Ser Glu Glu Lys Glu Glu Ser Lys Ser
195 200 205

<210> 1483

<211> 370

<212> PRT

<213> Homo sapiens

<400> 1483

Gly Gln Ile Lys Asp Glu Thr Leu Gln Ala Ala Val Arg Glu Ile Leu
1 5 10 15

Ala Leu Ile Gly Tyr Val Asp Pro Val Lys Gly Arg Gly Ile Arg Ile
20 25 30

Leu Ser Ile Asp Gly Gly Gly Thr Arg Gly Val Val Ala Leu Gln Thr
35 40 45

Leu Arg Lys Leu Val Glu Leu Thr Gln Lys Pro Val His Gln Leu Phe
50 55 60

Asp Tyr Ile Cys Gly Val Ser Thr Gly Ala Ile Leu Ala Phe Met Leu
65 70 75 80

Gly Leu Phe His Met Pro Leu Asp Glu Cys Glu Glu Leu Tyr Arg Lys
85 90 95

Leu Gly Ser Asp Val Phe Ser Gln Asn Val Ile Val Gly Thr Val Lys
100 105 110

Met Ser Trp Ser His Ala Phe Tyr Asp Ser Gln Thr Trp Glu Asn Ile
115 120 125

Leu Lys Asp Arg Met Gly Ser Ala Leu Met Ile Glu Thr Ala Arg Asn
130 135 140

Pro Thr Cys Pro Lys Val Ala Ala Val Ser Thr Ile Val Asn Arg Gly
145 150 155 160

Ile Thr Pro Lys Ala Phe Val Phe Arg Asn Tyr Gly His Phe Pro Gly
165 170 175

Ile Asn Ser His Tyr Leu Gly Gly Cys Gln Tyr Lys Met Trp Gln Ala
180 185 190

Ile Arg Ala Ser Ser Ala Ala Pro Gly Tyr Phe Ala Glu Tyr Ala Leu
195 200 205

Gly Asn Asp Leu His Gln Asp Gly Gly Leu Leu Leu Asn Asn Pro Ser
210 215 220

Ala Leu Ala Met His Glu Cys Lys Cys Leu Trp Pro Asp Val Pro Leu
225 230 235 240

Glu Cys Ile Val Ser Leu Gly Thr Gly Arg Tyr Glu Ser Asp Val Arg

Ile Ala Gly Glu Ala Ser Arg Leu Ala His Tyr Asn Lys Arg Ser Thr
100 105 110

Ile Thr Ser Arg Glu Ile Gln Thr Ala Val Arg Leu Leu Leu Pro Gly
115 120 125

Glu Leu Ala Lys His Ala Val Ser Glu Gly Thr Lys Ala Val Thr Lys
130 135 140

Tyr Thr Ser Ser Lys
145

<210> 1485

<211> 142

<212> PRT

<213> Homo sapiens

<400> 1485

Asp Pro Arg Val Arg Thr Phe Pro Pro Thr Leu Leu Leu Leu Leu His
1 5 10 15

Ser Arg Leu Ser Leu Cys Leu Ser His Phe Leu Pro Ser Pro His Pro
20 25 30

Pro Gln Cys Thr Glu Glu Gly Asn Arg Val Gln Thr His Ala Ala Pro
35 40 45

Val Leu Arg Arg Glu Gly Lys Pro Arg Arg Glu Ala Ala Met Asn Val
50 55 60

Asp His Glu Val Asn Leu Leu Val Glu Glu Ile His Arg Leu Gly Ser
65 70 75 80

Lys Asn Ala Asp Gly Lys Leu Ser Val Lys Phe Gly Val Leu Phe Arg
85 90 95

Asp Asp Lys Cys Ala Asn Leu Phe Glu Ala Leu Val Gly Thr Leu Lys
100 105 110

Ala Ala Lys Arg Arg Lys Ile Val Thr Tyr Pro Gly Glu Leu Leu Leu
115 120 125

Gln Gly Val His Asp Asp Val Asp Ile Ile Leu Leu Gln Asp
130 135 140

<210> 1486

<211> 298

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1486

Arg Gly Lys Cys Pro Ser Thr Ser Ser Leu Met Lys Glu Thr Ala Ala
1 5 10 15

Pro Ser Gln Ile Met Lys Asn Phe Gln Ala Pro Pro Gln Ile Ser Leu
20 25 30

Thr Ile Thr Leu Leu Leu Gly Glu Thr Thr Met Met Gln Pro Gln Pro
35 40 45

Thr Gln Gln Xaa Thr Pro Gly Pro Ser Ser Gly Gly His Ala Ser Gln
50 55 60

Ser Gly Asp Asn Ser Ser Glu Gln Gly Asp Gly Leu Asp Asn Ser Val
65 70 75 80

Ala Ser Pro Gly Thr Val Thr Asp Asp Asp Pro Asp Lys Asp Lys Lys
85 90 95

Arg Gln Lys Lys Arg Gly Ile Phe Pro Lys Val Ala Thr Asn Ile Met
100 105 110

Arg Ala Trp Leu Phe Gln His Leu Thr His Pro Tyr Pro Ser Glu Glu
115 120 125

Gln Lys Lys Gln Leu Ala Gln Asp Thr Gly Leu Thr Ile Leu Gln Val
130 135 140

Asn Asn Trp Phe Ile Asn Ala Arg Arg Arg Ile Val Gln Pro Met Ile
 145 150 155 160

Asp Gln Ser Asn Arg Ala Gly Phe Leu Leu Asp Pro Ser Val Ser Gln
 165 170 175

Gly Ala Ala Tyr Ser Pro Xaa Gly Gln Pro Met Gly Ser Phe Val Leu
 180 185 190

Asp Gly Xaa Gln His Met Gly Ile Arg Pro Ala Gly Leu Gln Ser Met
 195 200 205

Pro Gly Asp Tyr Val Ser Gln Gly Gly Pro Met Gly Met Ser Xaa Ala
 210 215 220

Gln Pro Ser Tyr Thr Pro Pro Gln Met Thr Pro His Pro Thr Gln Leu
 225 230 235 240

Arg His Gly Pro Pro Met His Ser Tyr Leu Pro Ser His Pro His His
 245 250 255

Pro Ala Met Met Met His Gly Gly Pro Pro Thr His Pro Gly Met Thr
 260 265 270

Met Ser Ala Gln Ser Pro Thr Met Leu Asn Ser Val Asp Pro Asn Val
 275 280 285

Gly Gly Gln Val Met Asp Ile His Ala Gln
 290 295

<210> 1487

<211> 133

<212> PRT

<213> Homo sapiens

<400> 1487

His Gln Ala Ile Lys Pro Gly Tyr Ser Ala Glu Asn Val Ala His Thr
 1 5 10 15

Asp His Thr Leu Gly Cys Val Thr Ile Val Trp Cys Thr Cys Trp Lys
 20 25 30

Asn Ser Ser Met Leu Leu Gly Asp Ile Ile Ser Val Gly Asn Met Pro
 35 40 45

Leu Thr Asp Phe Phe Phe Phe Leu Phe Ala Val Gly Leu Gly Gln Leu
 50 55 60

Ile Gln Gln Ser Ile Phe Phe Phe Phe Leu Ser Pro Asn Leu Asn Arg
65 70 75 80
Ser Lys Met Cys Ser Gly Ile Pro Gly Asn Arg Cys Val Cys Lys Val
85 90 95
Lys Asn Arg Leu Phe Arg Asn Ser Leu Phe Arg Tyr Leu His Pro Ala
100 105 110
Ser His Val Lys Tyr Leu Ser Leu Lys Gly Leu Arg Cys Thr Ser Phe
115 120 125
Ile Ser Tyr Phe Ser
130

<210> 1488
<211> 42
<212> PRT
<213> Homo sapiens

<400> 1488
Gln Arg Cys Pro Arg Cys Gly His Glu Gly Met Ala Tyr His Thr Arg
1 5 10 15
Gln Met Arg Ser Ala Asp Glu Gly Gln Thr Val Phe Tyr Thr Cys Thr
20 25 30
Asn Cys Lys Phe Gln Glu Lys Glu Asp Ser
35 40

<210> 1489
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1489
His Glu Ala Ala Phe Val Leu Cys Leu Thr Met Pro Glu Pro Ala Lys
1 5 10 15
Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys Lys Ala Val Thr Lys Ala
20 25 30

Gln Lys Lys Asp Gly Lys Lys Arg Lys Arg Ser Arg Lys Glu Ser Tyr
35 40 45

Ser Ile Tyr Val Tyr Lys Val Leu Lys Gln Val His Pro Asp Thr Gly
50 55 60

Ile Ser Ser Lys Ala Met Gly Ile Met Asn Ser Phe Val Asn Asp Ile
65 70 75 80

Phe Glu Arg Ile Xaa Gly Glu Ala Ser Arg Leu Ala His Tyr Asn Lys
85 90 95

Arg Ser Thr Ile Thr Ser Arg Glu Ile Gln Thr Ala Val Arg Leu Leu
100 105 110

Leu Pro Gly Glu Leu Ala Lys His Ala Val Ser Glu Gly Thr Lys Ala
115 120 125

Val Thr Lys Tyr Thr Ser Ser Lys
130 135

<210> 1490

<211> 235

<212> PRT

<213> Homo sapiens

<400> 1490

Pro Leu Ser Pro Gly Ala Gln Leu Gly Arg Gly Ala Pro Thr Ser Ala
1 5 10 15

Phe Pro Pro Pro Ala Ala Glu Ala His Pro Ala Ala Arg Arg Gly Leu
20 25 30

Arg Ser Pro Gln Leu Pro Ser Gly Ala Met Ser Gln Asn Gly Ala Pro
35 40 45

Gly Met Gln Glu Glu Ser Leu Gln Gly Ser Trp Val Glu Leu His Phe
50 55 60

Ser Asn Asn Gly Asn Gly Gly Ser Val Pro Ala Ser Val Ser Ile Tyr
65 70 75 80

Asn Gly Asp Met Glu Lys Ile Leu Leu Asp Ala Gln His Glu Ser Gly
85 90 95

Arg Ser Ser Ser Lys Ser Ser His Cys Asp Ser Pro Pro Arg Ser Gln
100 105 110

Thr Pro Gln Asp Thr Asn Arg Ala Ser Glu Thr Asp Thr His Ser Ile

Ala Gln Pro Val Pro Arg Pro Val Ser Gln Ala Arg Pro Pro Pro Asn
 85 90 95
 Gln Lys Lys Gly Ser Arg Thr Pro Ile Ile Ile Ile Pro Ala Ala Thr
 100 105 110
 Thr Ser Leu Ile Thr Met Leu Asn Ala Lys Asp Leu Leu Gln Asp Leu
 115 120 125
 Lys Phe Val Pro Ser Asp Glu Lys Lys Lys Gln Gly Cys Gln Arg Glu
 130 135 140
 Asn Glu Thr Leu Ile Gln Arg Arg Lys Asp Gln Met Gln Pro Gly Gly
 145 150 155 160
 Thr Ala Ile Ser Val Thr Val Pro Tyr Arg Val Val Asp Gln Pro Leu
 165 170 175
 Lys Leu Met Pro Gln Asp Trp Asp Arg Val Val Ala Val Phe Val Gln
 180 185 190
 Gly Pro Ala Trp Gln Phe Lys Gly Trp Pro Trp Leu Leu Pro Asp Gly
 195 200 205
 Ser Pro Val Asp Ile Phe Ala Lys Ile Lys Ala Phe His Leu Lys Tyr
 210 215 220
 Asp Glu Val Arg Leu Asp Pro Asn Val Gln Lys Trp Asp Val Thr Val
 225 230 235 240
 Leu Glu Leu Ser Tyr His Lys Arg His Leu Asp Arg Pro Val Phe Leu
 245 250 255
 Arg Phe Trp Glu Thr Leu Asp Arg Tyr Met Val Lys His Lys Ser His
 260 265 270
 Leu Arg Phe
 275

<210> 1492

<211> 380

<212> PRT

<213> Homo sapiens

<400> 1492

Gly Leu Arg Leu Gly Ser Trp Ser Gly Glu Glu Lys Gly Ile Pro Thr
 1 5 10 15

Cys Gly Thr Leu Gly Gly Pro Arg Gly Arg Arg Leu Pro Ile Asp Cys

20					25					30					
Gly	Arg	Cys	Lys	Gly	Arg	Ser	Leu	Trp	Arg	Leu	Val	Gly	Val	Leu	Gly
		35					40					45			
Ser	Ala	Gly	Gly	Gly	Arg	Gly	Val	Ser	Glu	Cys	Glu	Arg	Gly	Thr	Gly
		50					55					60			
Ile	Pro	Asn	Leu	Arg	Ala	Ser	Arg	Leu	Trp	Arg	Arg	Gly	Gly	Arg	Ala
							70					75			80
Gln	Ala	Ala	Met	Arg	Asp	Arg	Thr	His	Glu	Leu	Arg	Gln	Gly	Asp	Asp
							85					90			95
Ser	Ser	Asp	Glu	Glu	Asp	Lys	Glu	Arg	Val	Ala	Leu	Val	Val	His	Pro
			100					105						110	
Gly	Thr	Ala	Arg	Leu	Gly	Ser	Pro	Asp	Glu	Glu	Phe	Phe	His	Lys	Val
			115					120						125	
Arg	Thr	Ile	Arg	Gln	Thr	Ile	Val	Lys	Leu	Gly	Asn	Lys	Val	Gln	Glu
			130					135						140	
Leu	Glu	Lys	Gln	Gln	Val	Thr	Ile	Leu	Ala	Thr	Pro	Leu	Pro	Glu	Glu
								150						155	160
Ser	Met	Lys	Gln	Glu	Leu	Gln	Asn	Leu	Arg	Asp	Glu	Ile	Lys	Gln	Leu
								165						170	175
Gly	Arg	Glu	Ile	Arg	Leu	Gln	Leu	Lys	Ala	Ile	Glu	Pro	Gln	Lys	Glu
								180						185	190
Glu	Ala	Asp	Glu	Asn	Tyr	Asn	Ser	Val	Asn	Thr	Arg	Met	Arg	Lys	Thr
								195						200	205
Gln	His	Gly	Val	Leu	Ser	Gln	Gln	Phe	Val	Glu	Leu	Ile	Asn	Lys	Cys
								210						215	220
Asn	Ser	Met	Gln	Ser	Glu	Tyr	Arg	Glu	Lys	Asn	Val	Glu	Arg	Ile	Arg
								225						230	235
Arg	Gln	Leu	Lys	Ile	Thr	Asn	Ala	Gly	Met	Val	Ser	Asp	Glu	Glu	Leu
								245						250	255
Glu	Gln	Met	Leu	Asp	Ser	Gly	Gln	Ser	Glu	Val	Phe	Val	Ser	Asn	Ile
								260						265	270
Leu	Lys	Asp	Thr	Gln	Val	Thr	Arg	Gln	Ala	Leu	Asn	Glu	Ile	Ser	Ala
								275						280	285
Arg	His	Ser	Glu	Ile	Gln	Gln	Leu	Glu	Arg	Ser	Ile	Arg	Glu	Leu	His

290	295	300
Asp Ile Phe Thr Phe Leu Ala Thr Glu Val Glu Met Gln Gly Glu Met		
305	310	315 320
Ile Asn Arg Ile Glu Lys Asn Ile Leu Ser Ser Ala Asp Tyr Val Glu		
325	330	335
Arg Gly Gln Glu His Val Lys Thr Ala Leu Glu Asn Gln Lys Lys Ala		
340	345	350
Arg Lys Lys Lys Val Leu Ile Ala Ile Cys Val Ser Ile Thr Val Val		
355	360	365
Leu Leu Ala Val Ile Ile Gly Val Thr Val Val Gly		
370	375	380

<210> 1493

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1493

Ala Gln Lys Glu Leu Thr Lys Ala His Xaa Leu Glu Val Arg Leu His
1 5 10 15

Thr Phe Ser Met Phe Gly Met Pro Arg Leu Pro Pro Xaa Asp Arg Arg
20 25 30

His Trp Glu Ile Gly Glu Gly Gly Asp Ser Gly Leu Thr Ile Glu Lys
35 40 45

Ser Trp Arg Glu Leu Val Pro Gly His Lys Glu Met Ser Gln Glu Leu
50 55 60

Cys His Gln Gln Glu Ala Leu Trp Xaa Leu Leu Thr Thr Glu Leu Ile
 65 70 75 80

Leu Arg Glu Lys Ala Ser Arg Ser
 85

<210> 1494

<211> 469

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1494

Thr Ser Trp Met His Thr Arg Phe Ser Arg Arg Asn Trp Gly Lys Arg
 1 5 10 15

Thr Gly Thr Val Gln Val Leu Lys Arg Ser Gly Arg Glu Leu Ile Glu
 20 25 30

Asn Ser Arg Asp Asp Thr Thr Trp Val Lys Gly Gln Leu Gln Glu Leu
 35 40 45

Ser Thr Arg Trp Asp Thr Val Cys Lys Leu Ser Val Ser Lys Gln Ser
 50 55 60

Arg Leu Glu Gln Ala Leu Lys Gln Ala Glu Val Phe Arg Asp Thr Val
 65 70 75 80

His Met Leu Leu Glu Trp Leu Ser Glu Ala Glu Gln Thr Leu Arg Phe
 85 90 95

Arg Gly Ala Leu Pro Asp Asp Thr Glu Ala Leu Gln Ser Leu Ile Asp
 100 105 110

Thr His Lys Glu Phe Met Lys Lys Val Glu Glu Lys Arg Val Asp Val
 115 120 125

Asn Ser Ala Val Ala Met Gly Glu Val Ile Leu Ala Val Cys His Pro
 130 135 140

Asp Cys Ile Thr Thr Ile Lys His Trp Ile Thr Ile Ile Arg Ala Arg
 145 150 155 160

Phe Glu Glu Val Leu Thr Trp Ala Lys Gln His Gln Gln Arg Leu Glu

	165		170		175
Thr Ala Leu Ser Glu Leu Val Ala Asn Ala Glu Leu Leu Glu Glu Leu	180	185	190		
Leu Ala Trp Ile Gln Trp Ala Glu Thr Thr Leu Ile Gln Arg Asp Gln	195	200	205		
Glu Pro Ile Pro Gln Asn Ile Asp Arg Val Lys Ala Leu Ile Ala Glu	210	215	220		
His Gln Thr Phe Met Glu Glu Met Thr Arg Lys Gln Pro Asp Val Asp	225	230	235	240	
Arg Val Thr Lys Thr Tyr Lys Arg Lys Asn Ile Glu Pro Thr His Ala	245	250	255		
Pro Phe Ile Glu Lys Ser Arg Ser Gly Gly Arg Lys Ser Leu Ser Gln	260	265	270		
Pro Thr Pro Pro Pro Met Pro Ile Leu Ser Gln Ser Glu Ala Lys Asn	275	280	285		
Pro Arg Ile Asn Gln Leu Ser Ala Arg Trp Xaa Gln Val Trp Leu Leu	290	295	300		
Ala Leu Glu Arg Gln Arg Lys Leu Asn Asp Ala Leu Asp Arg Leu Glu	305	310	315	320	
Glu Leu Lys Glu Phe Ala Asn Phe Asp Phe Asp Val Trp Arg Lys Lys	325	330	335		
Tyr Met Arg Trp Met Asn His Lys Lys Ser Arg Val Met Asp Phe Phe	340	345	350		
Arg Arg Ile Asp Lys Asp Gln Asp Gly Lys Ile Thr Arg Gln Glu Phe	355	360	365		
Ile Asp Gly Ile Leu Ala Ser Lys Phe Pro Thr Thr Lys Leu Glu Met	370	375	380		
Thr Ala Val Ala Asp Ile Phe Asp Arg Asp Gly Asp Gly Tyr Ile Asp	385	390	395	400	
Tyr Tyr Glu Phe Val Ala Ala Leu His Pro Asn Lys Asp Ala Tyr Arg	405	410	415		
Pro Thr Thr Asp Ala Asp Lys Ile Glu Asp Glu Val Thr Arg Gln Val	420	425	430		
Ala Gln Cys Lys Cys Ala Lys Arg Phe Gln Val Glu Gln Ile Gly Glu					

435

440

445

Asn Lys Tyr Arg Val Arg Lys Arg Lys Ser Ser Pro Leu Leu Trp Trp
 450 455 460

Phe Leu Ile Cys Gly
 465

<210> 1495

<211> 366

<212> PRT

<213> Homo sapiens

<400> 1495

Thr Asn Tyr Ile Ser Arg Gln Ala Ala Glu Gly Gly Arg Val Glu Gly
 1 5 10 15

Pro Pro Leu Arg Pro Pro Ala Thr Ser Arg Arg Trp Ala Gly Pro Thr
 20 25 30

Leu Trp Arg Met Glu Val Thr Gly Asp Ala Gly Val Pro Glu Ser Gly
 35 40 45

Glu Ile Arg Thr Leu Lys Pro Cys Leu Leu Arg Arg Asn Tyr Ser Arg
 50 55 60

Glu Gln His Gly Val Ala Ala Ser Cys Leu Glu Asp Leu Arg Ser Lys
 65 70 75 80

Ala Cys Asp Ile Leu Ala Ile Asp Lys Ser Leu Thr Pro Val Thr Leu
 85 90 95

Val Leu Ala Glu Asp Gly Thr Ile Val Asp Asp Asp Asp Tyr Phe Leu
 100 105 110

Cys Leu Pro Ser Asn Thr Lys Phe Val Ala Leu Ala Ser Asn Glu Lys
 115 120 125

Trp Ala Tyr Asn Asn Ser Asp Gly Gly Thr Ala Trp Ile Ser Gln Glu
 130 135 140

Ser Phe Asp Val Asp Glu Thr Asp Ser Gly Ala Gly Leu Lys Trp Lys
 145 150 155 160

Asn Val Ala Arg Gln Leu Lys Glu Asp Leu Ser Ser Ile Ile Leu Leu
 165 170 175

Ser Glu Glu Asp Leu Gln Met Leu Val Asp Ala Pro Cys Ser Asp Leu
 180 185 190

Ala Gln Glu Leu Arg Gln Ser Cys Ala Thr Val Gln Arg Leu Gln His
 195 200 205

Thr Leu Gln Gln Val Leu Asp Gln Arg Glu Glu Val Arg Gln Ser Lys
 210 215 220

Gln Leu Leu Gln Leu Tyr Leu Gln Ala Leu Glu Lys Glu Gly Ser Leu
 225 230 235 240

Leu Ser Lys Gln Glu Glu Ser Lys Ala Ala Phe Gly Glu Glu Val Asp
 245 250 255

Ala Val Asp Thr Gly Ile Ser Arg Glu Thr Ser Ser Asp Val Ala Leu
 260 265 270

Ala Ser His Ile Leu Thr Ala Leu Arg Glu Lys Gln Ala Pro Glu Leu
 275 280 285

Ser Leu Ser Ser Gln Asp Leu Glu Leu Val Thr Lys Glu Asp Pro Lys
 290 295 300

Ala Leu Ala Val Ala Leu Asn Trp Asp Ile Lys Lys Thr Glu Thr Val
 305 310 315 320

Gln Glu Ala Cys Glu Arg Glu Leu Ala Leu Arg Leu Gln Gln Thr Gln
 325 330 335

Ser Leu His Ser Leu Arg Ser Ile Ser Ala Ser Lys Ala Ser Pro Pro
 340 345 350

Gly Asp Leu Gln Asn Pro Lys Arg Ala Arg Gln Asp Pro Thr
 355 360 365

<210> 1496

<211> 578

<212> PRT

<213> Homo sapiens

<400> 1496

Phe Pro Phe Glu Leu Val Thr Asn Pro Asp Phe Ser Pro Thr Pro Val
 1 5 10 15

Thr Phe Glu Lys Ala Leu Asn Ala Gly Phe Ile Gln Ala Thr Asp Tyr
 20 25 30

Val Glu Ile Trp Gln Ala Tyr Leu Asp Tyr Leu Arg Arg Arg Val Asp
 35 40 45

Phe Lys Gln Asp Ser Ser Lys Glu Leu Glu Glu Leu Arg Ala Ala Phe
 50 55 60
 Thr Arg Ala Leu Glu Tyr Leu Lys Gln Glu Val Glu Glu Arg Phe Asn
 65 70 75 80
 Glu Ser Gly Asp Pro Ser Cys Val Ile Met Gln Asn Trp Ala Arg Ile
 85 90 95
 Glu Ala Arg Leu Cys Asn Asn Met Gln Lys Ala Arg Glu Leu Trp Asp
 100 105 110
 Ser Ile Met Thr Arg Gly Asn Ala Lys Tyr Ala Asn Met Trp Leu Glu
 115 120 125
 Tyr Tyr Asn Leu Glu Arg Ala His Gly Asp Thr Gln His Cys Arg Lys
 130 135 140
 Ala Leu His Arg Ala Val Gln Cys Thr Ser Asp Tyr Pro Glu His Val
 145 150 155 160
 Cys Glu Val Leu Leu Thr Met Glu Arg Thr Glu Gly Ser Leu Glu Asp
 165 170 175
 Trp Asp Ile Ala Val Gln Lys Thr Glu Thr Arg Leu Ala Arg Val Asn
 180 185 190
 Glu Gln Arg Met Lys Ala Ala Glu Lys Glu Ala Ala Leu Val Gln Gln
 195 200 205
 Glu Glu Glu Lys Ala Glu Gln Arg Lys Arg Ala Arg Ala Glu Lys Lys
 210 215 220
 Ala Leu Lys Lys Lys Lys Lys Ile Arg Gly Pro Glu Lys Arg Gly Ala
 225 230 235 240
 Asp Glu Asp Asp Glu Lys Glu Trp Gly Asp Asp Glu Glu Glu Gln Pro
 245 250 255
 Ser Lys Arg Arg Arg Val Glu Asn Ser Ile Pro Ala Ala Gly Glu Thr
 260 265 270
 Gln Asn Val Glu Val Ala Ala Gly Pro Ala Gly Lys Cys Ala Ala Val
 275 280 285
 Asp Val Glu Pro Pro Ser Lys Gln Lys Glu Lys Ala Ala Ser Leu Lys
 290 295 300
 Arg Asp Met Pro Lys Val Leu His Asp Ser Ser Lys Asp Ser Ile Thr
 305 310 315 320

Val Phe Val Ser Asn Leu Pro Tyr Ser Met Gln Glu Pro Asp Thr Lys
325 330 335

Leu Arg Pro Leu Phe Glu Ala Cys Gly Glu Val Val Gln Ile Arg Pro
340 345 350

Ile Phe Ser Asn Arg Gly Asp Phe Arg Gly Tyr Cys Tyr Val Glu Phe
355 360 365

Lys Glu Glu Lys Ser Ala Leu Gln Ala Leu Glu Met Asp Arg Lys Ser
370 375 380

Val Glu Gly Arg Pro Met Phe Val Ser Pro Cys Val Asp Lys Ser Lys
385 390 395 400

Asn Pro Asp Phe Lys Val Phe Arg Tyr Ser Thr Ser Leu Glu Lys His
405 410 415

Lys Leu Phe Ile Ser Gly Leu Pro Phe Ser Cys Thr Lys Glu Glu Leu
420 425 430

Glu Glu Ile Cys Lys Ala His Gly Thr Val Lys Asp Leu Arg Leu Val
435 440 445

Thr Asn Arg Ala Gly Lys Pro Lys Gly Leu Ala Tyr Val Glu Tyr Glu
450 455 460

Asn Glu Ser Gln Ala Ser Gln Ala Val Met Lys Met Asp Gly Met Thr
465 470 475 480

Ile Lys Glu Asn Ile Ile Lys Val Ala Ile Ser Asn Pro Pro Gln Arg
485 490 495

Lys Val Pro Glu Lys Pro Glu Thr Arg Lys Ala Pro Gly Gly Pro Met
500 505 510

Leu Leu Pro Gln Thr Tyr Gly Ala Arg Gly Lys Gly Arg Thr Gln Leu
515 520 525

Ser Leu Leu Pro Arg Ala Leu Gln Arg Pro Ser Ala Ala Ala Pro Gln
530 535 540

Ala Glu Asn Gly Pro Ala Ala Ala Pro Ala Val Ala Ala Pro Ala Ala
545 550 555 560

Thr Glu Ala Pro Lys Met Ser Asn Ala Asp Phe Ala Lys Leu Phe Leu
565 570 575

Arg Lys

<210> 1497

<211> 316

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1497

Pro Trp Ser Ala Ala Ala Gly Leu Arg Ala Gly Val Arg Val Pro Arg
1 5 10 15

Ser Pro Gly Pro Ser Arg Arg Met Pro Ala Arg Ser Gly Ala Gln Phe
20 25 30

Cys Arg Arg Met Gly Gln Lys Lys Gln Arg Pro Ala Arg Ala Gly Gln
35 40 45

Pro His Ser Ser Ser Asp Ala Ala Gln Ala Pro Ala Glu Xaa Pro His
50 55 60

Ser Ser Ser Asp Ala Ala Gln Ala Pro Cys Pro Arg Glu Arg Cys Leu
65 70 75 80

Gly Pro Pro Thr Thr Pro Gly Pro Tyr Arg Ser Ile Tyr Phe Ser Ser
85 90 95

Pro Lys Gly His Leu Thr Arg Leu Gly Leu Glu Phe Phe Asp Gln Pro
100 105 110

Ala Val Pro Leu Ala Arg Ala Phe Leu Gly Gln Val Leu Val Arg Arg
115 120 125

Leu Pro Asn Gly Thr Glu Leu Arg Gly Arg Ile Val Glu Thr Glu Ala
130 135 140

Tyr Leu Gly Pro Glu Asp Glu Ala Ala His Ser Arg Gly Gly Arg Gln
145 150 155 160

Thr Pro Arg Asn Arg Gly Met Phe Met Lys Pro Gly Thr Leu Tyr Val
165 170 175

Tyr Ile Ile Tyr Gly Met Tyr Phe Cys Met Asn Ile Ser Ser Gln Gly
 180 185 190
 Asp Gly Ala Cys Val Leu Leu Arg Ala Leu Glu Pro Leu Glu Gly Leu
 195 200 205
 Glu Thr Met Arg Gln Xaa Arg Ser Thr Leu Arg Lys Gly Thr Ala Ser
 210 215 220
 Arg Val Leu Lys Asp Arg Glu Leu Cys Ser Gly Pro Ser Lys Leu Cys
 225 230 235 240
 Gln Ala Leu Ala Ile Asn Lys Ser Phe Asp Gln Arg Asp Leu Ala Gln
 245 250 255
 Asp Glu Ala Val Trp Leu Glu Arg Gly Pro Leu Glu Pro Ser Glu Pro
 260 265 270
 Ala Val Val Ala Ala Ala Arg Val Gly Val Gly His Ala Gly Glu Trp
 275 280 285
 Ala Arg Lys Pro Leu Arg Phe Tyr Val Arg Gly Ser Pro Trp Val Ser
 290 295 300
 Val Val Asp Arg Val Ala Glu Gln Asp Thr Gln Ala
 305 310 315

<210> 1498
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1498

Lys Cys Asn Tyr Val Leu Ser Ala Ser Lys Phe Lys Thr Tyr Trp Asn
 1 5 10 15
 Val Glu Ser Val Val Thr Lys Tyr Val Arg Arg Thr Lys Gly Met Cys
 20 25 30
 Lys Ser Leu Met Pro Ile Ser Ser Glu Asn Leu Ser Lys Leu Thr Gly
 35 40 45
 Pro Ala Glu Thr Ala His Ser Ala Arg Arg Asn His Asp Ile Ala Leu
 50 55 60
 Pro Cys Gly Arg Ser Thr Cys Leu Glu Asn Thr Val Leu Tyr Tyr His
 65 70 75 80
 Tyr Gly

<210> 1499

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1499

Ser Cys Cys Leu Glu Asn Tyr Ser Phe Leu Ser Trp Ser Ala Asp Arg
1 5 10 15
Asn Ser His Thr Asn Leu Ile Gly Leu Lys Cys Ile Phe Arg Gln Gln
20 25 30
Gly Thr Lys Gln Arg Gly Thr Gly Leu Leu Asp Trp Arg Lys Ser Leu
35 40 45
Leu Ala Trp Trp Ala Val Phe Gln Glu Arg Pro Cys Pro Cys Ser Leu
50 55 60
Leu Gly Thr Phe Gln Phe Arg Phe Pro Leu Val
65 70 75

<210> 1500

<211> 144

<212> PRT

<213> Homo sapiens

<400> 1500

Lys Arg Ser Trp Ala Gly Gly Arg Ala Arg Arg Lys Leu Phe Gly Gly
1 5 10 15
Leu Val Trp Ile Leu Val Ala Ser Ser Asn Val Pro Leu Pro Leu Leu
20 25 30
Gln Gly Trp Val Met Phe Val Ser Val Thr Ala Phe Phe Phe Ser Leu
35 40 45
Leu Phe Leu Gly Met Phe Leu Ser Gly Met Val Ala Gln Ile Asp Ala
50 55 60
Asn Trp Asn Phe Leu Asp Phe Ala Tyr His Phe Thr Val Phe Val Phe
65 70 75 80
Tyr Phe Gly Ala Phe Leu Leu Glu Ala Ala Ala Thr Ser Leu His Asp
85 90 95

Leu His Cys Asn Thr Thr Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn
100 105 110
Gln Tyr Asn Ile Asn Val Ala Ala Ser Ile Phe Ala Phe Met Thr Thr
115 120 125
Ala Cys Tyr Gly Cys Ser Leu Gly Leu Ala Leu Arg Arg Trp Arg Pro
130 135 140

<210> 1501
<211> 123
<212> PRT
<213> Homo sapiens

<400> 1501
Val Leu Pro Gly Gly Ser Leu Lys Val Gln Lys Cys Cys Pro Lys Pro
1 5 10 15
Ser Leu Asn Ile Ser Gly Asn Arg Ser Cys Ser Thr Met Gly Val Gln
20 25 30
Cys Pro Cys Leu Pro Leu Thr Gln Leu Trp Phe Ile Leu Leu Val Cys
35 40 45
Leu His Arg Pro Asp Ala Arg Val Pro Cys Leu Ile Leu His Leu Leu
50 55 60
Ser His Trp Gly Ser Leu Pro Ser Asp Ala Leu Ala Lys Ile Ala Leu
65 70 75 80
Val Cys Ser Arg Lys Glu Gly Gln Ile Pro Gly Ile Val Arg Ala Ala
85 90 95
Glu Leu Tyr Arg Ile Gly Leu Pro Phe Pro Pro Val Trp Leu Ala Leu
100 105 110
His Ser Leu Gln Ile Pro Pro Thr Ser Thr Gln
115 120

<210> 1502
<211> 426
<212> PRT
<213> Homo sapiens

<400> 1502

Glu Ile Tyr Ser Leu Ser Arg Phe Ile Glu Val Lys Met Ser Lys Lys
1 5 10 15

Ile Ser Gly Gly Ser Val Val Glu Met Gln Gly Asp Glu Met Thr Arg
20 25 30

Ile Ile Trp Glu Leu Ile Lys Glu Lys Leu Ile Phe Pro Tyr Val Glu
35 40 45

Leu Asp Leu His Ser Tyr Asp Leu Gly Ile Glu Asn Arg Asp Ala Thr
50 55 60

Asn Asp Gln Val Thr Lys Asp Ala Ala Glu Ala Ile Lys Lys His Asn
65 70 75 80

Val Gly Val Lys Cys Ala Thr Ile Thr Pro Asp Glu Lys Arg Val Glu
85 90 95

Glu Phe Lys Leu Lys Gln Met Trp Lys Ser Pro Asn Gly Thr Ile Arg
100 105 110

Asn Ile Leu Gly Gly Thr Val Phe Arg Glu Ala Ile Ile Cys Lys Asn
115 120 125

Ile Pro Arg Leu Val Ser Gly Trp Val Lys Pro Ile Ile Ile Gly Arg
130 135 140

His Ala Tyr Gly Asp Gln Tyr Arg Ala Thr Asp Phe Val Val Pro Gly
145 150 155 160

Pro Gly Lys Val Glu Ile Thr Tyr Thr Pro Ser Asp Gly Thr Gln Lys
165 170 175

Val Thr Tyr Leu Val His Asn Phe Glu Glu Gly Gly Gly Val Ala Met
180 185 190

Gly Met Tyr Asn Gln Asp Lys Ser Ile Glu Asp Phe Ala His Ser Ser
195 200 205

Phe Gln Met Ala Leu Ser Lys Gly Trp Pro Leu Tyr Leu Ser Thr Lys
210 215 220

Asn Thr Ile Leu Lys Lys Tyr Asp Gly Arg Phe Lys Asp Ile Phe Gln
225 230 235 240

Glu Ile Tyr Asp Lys Gln Tyr Lys Ser Gln Phe Glu Ala Gln Lys Ile
245 250 255

Trp Tyr Glu His Arg Leu Ile Asp Asp Met Val Ala Gln Ala Met Lys
260 265 270

Ser Glu Gly Gly Phe Ile Trp Ala Cys Lys Asn Tyr Asp Gly Asp Val
275 280 285

Gln Ser Asp Ser Val Ala Gln Gly Tyr Gly Ser Leu Gly Met Met Thr
290 295 300

Ser Val Leu Val Cys Pro Asp Gly Lys Thr Val Glu Ala Glu Ala Ala
305 310 315 320

His Gly Thr Val Thr Arg His Tyr Arg Met Tyr Gln Lys Gly Gln Glu
325 330 335

Thr Ser Thr Asn Pro Ile Ala Ser Ile Phe Ala Trp Thr Arg Gly Leu
340 345 350

Ala His Arg Ala Lys Leu Asp Asn Asn Lys Glu Leu Ala Phe Phe Ala
355 360 365

Asn Ala Leu Glu Glu Val Ser Ile Glu Thr Ile Glu Ala Gly Phe Met
370 375 380

Thr Lys Asp Leu Ala Ala Cys Ile Lys Gly Leu Pro Asn Val Gln Arg
385 390 395 400

Ser Asp Tyr Leu Asn Thr Phe Glu Phe Met Asp Lys Leu Gly Glu Asn
405 410 415

Leu Lys Ile Lys Leu Ala Gln Ala Lys Leu
420 425

<210> 1503

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1503

Phe Asn Lys Arg Lys Met Lys Tyr Ser Val Ala Tyr Ile Phe His Arg
1 5 10 15

Ala His Glu His Leu Leu Tyr Leu Leu Gly Leu Ala Lys Ile Ile Tyr
20 25 30

Ser Ala Ala Leu Pro Lys Cys Leu His Thr Lys Leu Lys Val Val Leu
35 40 45

Ile Tyr Val Ser Trp Lys Leu Phe Ile Lys Phe Lys Gly Ile Ser Phe
50 55 60

Arg
65

<210> 1504

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1504

Phe Phe Val Ile Pro Ser Ser Gly Ser Ile Cys Phe Cys Ser Leu Val
1 5 10 15

Thr Val Leu Met Phe Asn Cys Cys Thr Leu Lys Pro Lys Ser Val Thr
20 25 30

Met His Thr Val Thr Lys Val Leu Gly Leu Gln Ser Cys Leu Leu Tyr
35 40 45

Lys Glu Asn Phe Lys Cys Cys Cys Lys Leu Thr Ser Tyr Thr Ile Leu
50 55 60

Asn Phe Leu Ser Ser Pro Leu Phe Leu Pro Thr Asn Gly Ile Ile Met
65 70 75 80

Leu Ala

<210> 1505

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1505

Glu Gly Cys Ala Ala Ala Met Ala Leu Arg Met Leu Trp Ala Gly Gln
1 5 10 15

Ala Lys Gly Ile Leu Gly Gly Trp Gly Ile Ile Cys Leu Val Met Ser
20 25 30

Leu Leu Leu Gln His Pro Gly Val Tyr Ser Lys Cys Tyr Phe Gln Ala
35 40 45

Gln Ala Pro Cys His Tyr Glu Gly Lys Tyr Phe Thr Leu Gly Xaa Ser
 50 55 60

Trp Leu Arg Lys Asp Cys Phe His Cys Thr Cys Leu His Pro Val Ala
 65 70 75 80

Trp Ala

<210> 1506

<211> 419

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (404)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (405)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1506

Ala Arg Val Asp Arg Glu Thr Arg Ala Leu Ala Asp Ser His Phe Arg
 1 5 10 15

Gly Leu Gly Val Asp Val Pro Gly Val Gly Gln Ala Pro Gly Arg Val
 20 25 30

Ala Phe Val Ser Glu Pro Gly Ala Phe Ser Tyr Ala Asp Phe Val Arg
 35 40 45

Gly Phe Leu Leu Pro Asn Leu Pro Cys Val Phe Ser Ser Ala Phe Thr
 50 55 60

Gln Gly Trp Gly Ser Arg Arg Arg Trp Val Thr Pro Ala Gly Arg Pro
 65 70 75 80

Asp Phe Asp His Leu Leu Arg Thr Tyr Gly Asp Val Val Val Pro Val
 85 90 95

Ala Asn Cys Gly Val Gln Glu Tyr Asn Ser Asn Pro Lys Glu His Met
 100 105 110

Thr Leu Arg Asp Tyr Ile Thr Tyr Trp Lys Glu Tyr Ile Gln Ala Gly
 115 120 125

Tyr Ser Ser Pro Arg Gly Cys Leu Tyr Leu Lys Asp Trp His Leu Cys
 130 135 140

Arg Asp Phe Pro Val Glu Asp Val Phe Thr Leu Pro Val Tyr Phe Ser
 145 150 155 160

Ser Asp Trp Leu Asn Glu Phe Trp Asp Ala Leu Asp Val Asp Asp Tyr
 165 170 175

Arg Phe Val Tyr Ala Gly Pro Ala Gly Ser Trp Ser Pro Phe His Ala
 180 185 190

Asp Ile Phe Arg Ser Phe Ser Trp Ser Val Asn Val Cys Gly Arg Lys
 195 200 205

Lys Trp Leu Leu Phe Pro Pro Gly Gln Glu Glu Ala Leu Arg Asp Arg
 210 215 220

His Gly Asn Leu Pro Tyr Asp Val Thr Ser Pro Ala Leu Cys Asp Thr
 225 230 235 240

His Leu His Pro Arg Asn Gln Leu Ala Gly Pro Pro Leu Glu Ile Thr
 245 250 255

Gln Glu Ala Gly Glu Met Val Phe Val Pro Ser Gly Trp His His Gln
 260 265 270

Val His Asn Leu Asp Asp Thr Ile Ser Ile Asn His Asn Trp Val Asn
 275 280 285

Gly Phe Asn Leu Ala Asn Met Trp Arg Phe Leu Gln Gln Glu Leu Cys
 290 295 300

Ala Val Gln Glu Glu Val Ser Glu Trp Arg Asp Ser Met Pro Asp Trp
 305 310 315 320

His His His Cys Gln Val Ile Met Arg Ser Cys Ser Gly Ile Asn Phe
 325 330 335

Glu Glu Phe Tyr His Phe Leu Lys Val Ile Ala Glu Lys Arg Leu Leu
 340 345 350

Val Leu Arg Glu Ala Ala Ala Glu Asp Gly Ala Gly Leu Gly Phe Glu
 355 360 365

Gln Ala Ala Phe Asp Val Gly Arg Ile Thr Glu Val Leu Ala Ser Leu
 370 375 380

Val Ala His Pro Asp Phe Gln Arg Val Asp Thr Ser Ala Phe Ser Pro
 385 390 395 400

Gln Pro Lys Xaa Xaa Leu Gln Gln Leu Arg Glu Ala Val Asp Ala Ala
 405 410 415

Ala Ala Pro

<210> 1507

<211> 220

<212> PRT

<213> Homo sapiens

<400> 1507

Pro Arg Val Arg Ser Gly Arg Thr Ile Met Gln Ser Ala Met Phe Leu
 1 5 10 15

Ala Val Gln His Asp Cys Arg Pro Met Asp Lys Ser Ala Gly Ser Gly
 20 25 30

His Lys Ser Glu Glu Lys Arg Glu Lys Met Lys Arg Thr Leu Leu Lys
 35 40 45

Asp Trp Lys Thr Arg Leu Ser Tyr Phe Leu Gln Asn Ser Ser Thr Pro
 50 55 60

Gly Lys Pro Lys Thr Gly Lys Lys Ser Lys Gln Gln Ala Phe Ile Lys
 65 70 75 80

Pro Ser Pro Glu Glu Ala Gln Leu Trp Ser Glu Ala Phe Asp Glu Leu
 85 90 95

Leu Ala Ser Lys Tyr Gly Leu Ala Ala Phe Arg Ala Phe Leu Lys Ser
 100 105 110

Glu Phe Cys Glu Glu Asn Ile Glu Phe Trp Leu Ala Cys Glu Asp Phe
 115 120 125

Lys Lys Thr Lys Ser Pro Gln Lys Leu Ser Ser Lys Ala Arg Lys Ile
 130 135 140

Tyr Thr Asp Phe Ile Glu Lys Glu Ala Pro Lys Glu Ile Asn Ile Asp
 145 150 155 160

Phe Gln Thr Lys Thr Leu Ile Ala Gln Asn Ile Gln Glu Ala Thr Ser
 165 170 175

Gly Cys Phe Thr Thr Ala Gln Lys Arg Val Tyr Ser Leu Met Glu Asn
 180 185 190

Asn Ser Tyr Pro Arg Phe Leu Glu Ser Glu Phe Tyr Gln Asp Leu Cys

195	200	205
Lys Lys Pro Gln Ile Thr Thr Glu Pro His Ala Thr		
210	215	220

<210> 1508
 <211> 339
 <212> PRT
 <213> Homo sapiens

<400> 1508
 Phe Gly Thr Arg Arg Ser Gly Cys Pro Ala Arg Gly His Ser Glu Pro
 1 5 10 15
 Gly Gly Arg Glu Glu Gly Gly Met Pro Gln Thr Val Ile Leu Pro Gly
 20 25 30
 Pro Ala Pro Trp Gly Phe Arg Leu Ser Gly Gly Ile Asp Phe Asn Gln
 35 40 45
 Pro Leu Val Ile Thr Arg Ile Thr Pro Gly Ser Lys Ala Ala Ala Ala
 50 55 60
 Asn Leu Cys Pro Gly Asp Val Ile Leu Ala Ile Asp Gly Phe Gly Thr
 65 70 75 80
 Glu Ser Met Thr His Ala Asp Ala Gln Asp Arg Ile Lys Ala Ala Ala
 85 90 95
 His Gln Leu Cys Leu Lys Ile Asp Arg Gly Glu Thr His Leu Trp Ser
 100 105 110
 Pro Gln Val Ser Glu Asp Gly Lys Ala His Pro Phe Lys Ile Asn Leu
 115 120 125
 Glu Ser Glu Pro Gln Glu Phe Lys Pro Ile Gly Thr Ala His Asn Arg
 130 135 140
 Arg Ala Gln Pro Phe Val Ala Ala Ala Asn Ile Asp Asp Lys Arg Gln
 145 150 155 160
 Val Val Ser Ala Ser Tyr Asn Ser Pro Ile Gly Leu Tyr Ser Thr Ser
 165 170 175
 Asn Ile Gln Asp Ala Leu His Gly Gln Leu Arg Gly Leu Ile Pro Ser
 180 185 190
 Ser Pro Gln Asn Glu Pro Thr Ala Ser Val Pro Pro Glu Ser Asp Val
 195 200 205

Tyr Arg Met Leu His Asp Asn Arg Asn Glu Pro Thr Gln Pro Arg Gln
 210 215 220
 Ser Gly Ser Phe Arg Val Leu Gln Gly Met Val Asp Asp Gly Ser Asp
 225 230 235 240
 Asp Arg Pro Ala Gly Thr Arg Ser Val Arg Ala Pro Val Thr Lys Val
 245 250 255
 His Gly Gly Ser Gly Gly Ala Gln Arg Met Pro Leu Cys Asp Lys Cys
 260 265 270
 Gly Ser Gly Ile Val Gly Ala Val Val Lys Ala Arg Asp Lys Tyr Arg
 275 280 285
 His Pro Glu Cys Phe Val Cys Ala Asp Cys Asn Leu Asn Leu Lys Gln
 290 295 300
 Lys Gly Tyr Phe Phe Ile Glu Gly Glu Leu Tyr Cys Glu Thr His Ala
 305 310 315 320
 Arg Ala Arg Thr Lys Pro Pro Glu Gly Tyr Asp Thr Val Thr Leu Tyr
 325 330 335
 Pro Lys Ala

<210> 1509

<211> 388

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1509

Leu Gly Arg Val Ser Met Ser Leu Gly Trp Leu Glu Arg Pro Pro Ala
 1 5 10 15

Leu Ser Arg Ala Ala Gly Asp Gly Ala Arg Arg Leu Ser Gly Ser Arg
 20 25 30

Arg Gly Asp Val Trp Leu Thr Ser Ser Ala Ala Gly Leu Leu Arg Ser
 35 40 45

Val Ala Gly Gly Ser Trp Cys Gly Gly Gln Leu Arg Ala Arg Gly Gly

50	55	60
Ser Gly Arg Cys Val Ala Arg Ala Met Thr Gly Asn Ala Gly Glu Trp		
65	70	75 80
Cys Leu Met Glu Ser Asp Pro Gly Val Phe Thr Glu Leu Ile Lys Gly		
	85	90 95
Phe Gly Cys Arg Gly Ala Gln Val Glu Glu Ile Trp Ser Leu Glu Pro		
	100	105 110
Glu Asn Phe Glu Lys Leu Lys Pro Val His Gly Leu Ile Phe Leu Phe		
	115	120 125
Lys Trp Gln Pro Gly Glu Glu Pro Ala Gly Ser Val Val Gln Asp Ser		
	130	135 140
Arg Leu Asp Thr Ile Phe Phe Ala Lys Gln Val Ile Asn Asn Ala Cys		
	145	150 155 160
Ala Thr Gln Ala Ile Val Ser Val Leu Leu Asn Cys Thr His Gln Asp		
	165	170 175
Val His Leu Gly Glu Thr Leu Ser Glu Phe Lys Glu Phe Ser Gln Ser		
	180	185 190
Phe Asp Ala Ala Met Lys Gly Leu Ala Leu Ser Asn Ser Asp Val Ile		
	195	200 205
Arg Gln Val His Asn Ser Phe Ala Arg Gln Gln Met Phe Glu Phe Asp		
	210	215 220
Thr Xaa Thr Ser Ala Lys Glu Glu Asp Ala Phe His Phe Val Ser Tyr		
	225	230 235 240
Val Pro Val Asn Gly Arg Leu Tyr Glu Leu Asp Gly Leu Arg Glu Gly		
	245	250 255
Pro Ile Asp Leu Gly Ala Cys Asn Gln Asp Asp Trp Phe Ser Ala Val		
	260	265 270
Arg Pro Val Ile Glu Lys Arg Ile Gln Lys Tyr Ser Glu Gly Glu Ile		
	275	280 285
Arg Phe Asn Leu Met Ala Ile Val Ser Asp Arg Lys Met Ile Tyr Glu		
	290	295 300
Gln Lys Ile Ala Glu Leu Gln Arg Gln Leu Ala Glu Glu Pro Met Asp		
	305	310 315 320
Thr Asp Gln Gly Asn Ser Met Leu Ser Ala Ile Gln Ser Glu Val Ala		

				325				330				335			
Lys	Asn	Gln	Met	Leu	Ile	Glu	Glu	Glu	Val	Gln	Lys	Leu	Lys	Arg	Tyr
340				345				350							
Lys	Ile	Glu	Asn	Ile	Arg	Arg	Lys	His	Asn	Tyr	Leu	Pro	Phe	Ile	Met
355				360				365							
Glu	Leu	Leu	Lys	Thr	Leu	Ala	Glu	His	Gln	Gln	Leu	Ile	Pro	Leu	Val
370				375				380							
Glu	Lys	Gly	Lys												
385															

<210> 1510

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (249)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1510

Arg Gly Gln Val Pro Ser Ser Ser Leu Ala His Gly Cys Val Arg Pro
1 5 10 15

Gly Glu Pro Ser Trp Pro Gly Glu Pro Ser Trp Pro Ala Arg Val Leu
20 25 30

Arg Arg Arg Gln Val Leu Tyr Pro Arg Phe Gln Ser Arg Gly Pro Gln
35 40 45

Gly Val Glu Asp Gly Asp Arg Pro Gln Pro Ser Ser Lys Thr Pro Arg
50 55 60

Ile Pro Lys Ile Tyr Thr Lys Thr Gly Asp Lys Gly Phe Ser Ser Thr
65 70 75 80

Phe Thr Gly Glu Arg Arg Pro Lys Asp Asp Gln Val Phe Glu Ala Val
85 90 95

Gly Thr Thr Asp Glu Leu Ser Ser Ala Ile Gly Phe Ala Leu Glu Leu
100 105 110

Val Thr Glu Lys Gly His Thr Phe Ala Glu Glu Leu Gln Lys Ile Gln
115 120 125

Cys Thr Leu Gln Asp Val Gly Ser Ala Leu Ala Thr Pro Cys Ser Ser
 130 135 140
 Ala Arg Glu Ala His Leu Lys Tyr Thr Thr Phe Lys Ala Gly Pro Ile
 145 150 155 160
 Leu Glu Leu Glu Gln Trp Ile Asp Lys Tyr Thr Ser Gln Leu Pro Pro
 165 170 175
 Leu Thr Ala Phe Ile Leu Pro Ser Gly Gly Lys Ile Ser Ser Ala Leu
 180 185 190
 His Phe Cys Arg Ala Val Cys Arg Arg Ala Glu Arg Arg Val Val Pro
 195 200 205
 Leu Val Gln Met Gly Glu Thr Asp Ala Asn Val Ala Lys Phe Leu Asn
 210 215 220
 Arg Leu Ser Asp Tyr Leu Phe Thr Leu Ala Arg Tyr Ala Ala Met Lys
 225 230 235 240
 Glu Gly Asn Gln Glu Lys Ile Tyr Xaa Lys Asn Asp Pro Ser Ala Glu
 245 250 255
 Ser Glu Gly Leu
 260

<210> 1511

<211> 288

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1511

Gln His Phe His Phe Arg Lys Pro Thr Asp Val Leu Gln Thr Val Lys
 1 5 10 15
 Leu Leu Asp Leu Ser Ser Asn Gln Leu Ile Asp Glu Asn Gln Leu Tyr
 20 25 30
 Leu Ile Ala His Leu Pro Arg Leu Glu Gln Leu Ile Leu Ser Asp Thr
 35 40 45
 Gly Ile Ser Ser Leu His Phe Pro Asp Ala Gly Ile Gly Cys Lys Thr
 50 55 60

Ser Met Phe Pro Ser Leu Lys Tyr Leu Val Val Asn Asp Asn Gln Ile
65 70 75 80

Ser Gln Trp Ser Phe Phe Asn Glu Leu Glu Lys Leu Pro Ser Leu Arg
85 90 95

Ala Leu Ser Cys Leu Arg Asn Pro Leu Thr Lys Glu Asp Lys Glu Ala
100 105 110

Glu Thr Ala Arg Leu Leu Ile Ile Ala Ser Ile Gly Gln Leu Lys Thr
115 120 125

Leu Asn Lys Cys Glu Ile Leu Pro Glu Glu Arg Arg Arg Ala Glu Leu
130 135 140

Asp Tyr Arg Lys Ala Phe Gly Asn Glu Trp Lys Gln Ala Gly Gly His
145 150 155 160

Lys Xaa Pro Glu Lys Asn Arg Leu Ser Glu Glu Phe Leu Thr Ala His
165 170 175

Pro Arg Tyr Gln Phe Leu Cys Leu Lys Tyr Gly Ala Pro Glu Asp Trp
180 185 190

Glu Leu Lys Thr Gln Gln Pro Leu Met Leu Lys Asn Gln Leu Leu Thr
195 200 205

Leu Lys Ile Lys Tyr Pro His Gln Leu Asp Gln Lys Val Leu Glu Lys
210 215 220

Gln Leu Pro Gly Ser Met Thr Ile Gln Lys Val Lys Gly Leu Leu Ser
225 230 235 240

Arg Leu Leu Lys Val Pro Val Ser Asp Leu Leu Leu Ser Tyr Glu Ser
245 250 255

Pro Lys Lys Pro Gly Arg Glu Ile Glu Leu Glu Asn Asp Leu Lys Ser
260 265 270

Leu Gln Phe Tyr Ser Val Glu Asn Gly Asp Cys Leu Leu Val Arg Trp
275 280 285

<210> 1512

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1512

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Lys Cys Pro Arg Glu Pro Leu Val His Arg Arg Phe Val Ser Thr Leu
  1              5              10              15

Pro Ile Phe Thr Ala Leu Ala Leu Gln Ala Trp Gly Ser Ile Cys Ser
          20              25              30

Ser His Val Lys Ser Gly Pro Ala Phe Leu Asn Ser Val Gln Ala Asp
          35              40              45

Leu Phe Ser Cys Thr Gly Ile Ser Tyr Gln Pro Asn Ile Cys Ile Glu
  50              55              60

Gln Arg Gly Leu Cys Ala Pro Pro Xaa Met Ala Ala Met Met Ala Ala
  65              70              75              80

Val Ile His Ala His Leu Gln Thr Ser Gln Ser Gly Ser Glu Met Ser
          85              90              95

Thr Asn Ile Cys Gly Arg Lys Gly Tyr Thr Asp His Pro Val Val Leu
          100             105             110

Gln Leu Tyr Arg Ala Arg Lys Gly Cys Gly Lys
          115             120

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<210> 1513

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1513

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Ala Asp Gly Gly Trp Gly Glu Asp Phe Glu Ser Cys Glu Glu Arg Arg
  1              5              10              15

Tyr Val Gln Ser Ala Gln Ser Gln Ile His Asn Thr Cys Trp Ala Met
          20              25              30

Met Gly Leu Met Ala Val Arg His Pro Asp Ile Glu Ala Gln Glu Arg
          35              40              45

Gly Val Arg Cys Leu Leu Glu Lys Gln Leu Pro Asn Gly Asp Trp Pro
          50              55              60

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Gln Glu Asn Ile Ala Gly Val Phe Asn Lys Ser Cys Ala Ile Ser Tyr
65 70 75 80

Thr Ser Tyr Arg Asn Ile Phe Pro Ile Trp Ala Leu Gly Arg Phe Ser
85 90 95

Gln Leu Tyr Pro Glu Arg Ala Leu Ala Gly His Pro
100 105

<210> 1514

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1514

Ser Trp Xaa Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro
1 5 10 15

Pro Gly Cys Arg Asn Ser Ala Arg Val Ser Leu Phe Val Cys Phe Phe
20 25 30

Leu

<210> 1515

<211> 479

<212> PRT

<213> Homo sapiens

<400> 1515

Gly Thr Arg Arg Pro Ser Ser Ser Val Arg Ser Gly Ser Trp Ser Arg
1 5 10 15

Leu Pro Gly Tyr Arg Gly Ala Ser Met Thr Thr Met Ala Ala Ala Thr
20 25 30

Leu Leu Arg Ala Thr Pro His Phe Ser Gly Leu Ala Ala Gly Arg Thr
35 40 45

Phe Leu Leu Gln Gly Leu Leu Arg Leu Leu Lys Ala Pro Ala Leu Pro
50 55 60

Leu Leu Cys Arg Gly Leu Ala Val Glu Ala Lys Lys Thr Tyr Val Arg
 65 70 75 80
 Asp Lys Pro His Val Asn Val Gly Thr Ile Gly His Val Asp His Gly
 85 90 95
 Lys Thr Thr Leu Thr Ala Ala Ile Thr Lys Ile Leu Ala Glu Gly Gly
 100 105 110
 Gly Ala Lys Phe Lys Lys Tyr Glu Glu Ile Asp Asn Ala Pro Glu Glu
 115 120 125
 Arg Ala Arg Gly Ile Thr Ile Asn Ala Ala His Val Glu Tyr Ser Thr
 130 135 140
 Ala Ala Arg His Tyr Ala His Thr Asp Cys Pro Gly His Ala Asp Tyr
 145 150 155 160
 Val Lys Asn Met Ile Thr Gly Thr Ala Pro Leu Asp Gly Cys Ile Leu
 165 170 175
 Val Val Ala Ala Asn Asp Gly Pro Met Pro Gln Thr Arg Glu His Leu
 180 185 190
 Leu Leu Ala Arg Gln Ile Gly Val Glu His Val Val Val Tyr Val Asn
 195 200 205
 Lys Ala Asp Ala Val Gln Asp Ser Glu Met Val Glu Leu Val Glu Leu
 210 215 220
 Glu Ile Arg Glu Leu Leu Thr Glu Phe Gly Tyr Lys Gly Glu Glu Thr
 225 230 235 240
 Pro Val Ile Val Gly Ser Ala Leu Cys Ala Leu Glu Gly Arg Asp Pro
 245 250 255
 Glu Leu Gly Leu Lys Ser Val Gln Lys Leu Leu Asp Ala Val Asp Thr
 260 265 270
 Tyr Ile Pro Val Pro Ala Arg Asp Leu Glu Lys Pro Phe Leu Leu Pro
 275 280 285
 Val Glu Ala Val Tyr Ser Val Pro Gly Arg Gly Thr Val Val Thr Gly
 290 295 300
 Thr Leu Glu Arg Gly Ile Leu Lys Lys Gly Asp Glu Cys Glu Leu Leu
 305 310 315 320
 Gly His Ser Lys Asn Ile Arg Thr Val Val Thr Gly Ile Glu Met Phe
 325 330 335

His Lys Ser Leu Glu Arg Ala Glu Ala Gly Asp Asn Leu Gly Ala Leu
 340 345 350

Val Arg Gly Leu Lys Arg Glu Asp Leu Arg Arg Gly Leu Val Met Val
 355 360 365

Lys Pro Gly Ser Ile Lys Pro His Gln Lys Val Glu Ala Gln Val Tyr
 370 375 380

Ile Leu Ser Lys Glu Glu Gly Gly Arg His Lys Pro Phe Val Ser His
 385 390 395 400

Phe Met Pro Val Met Phe Ser Leu Thr Trp Asp Met Ala Cys Arg Ile
 405 410 415

Ile Leu Pro Pro Glu Lys Glu Leu Ala Met Pro Gly Glu Asp Leu Lys
 420 425 430

Phe Asn Leu Ile Leu Arg Gln Pro Met Ile Leu Glu Lys Gly Gln Arg
 435 440 445

Phe Thr Leu Arg Asp Gly Asn Arg Thr Ile Gly Thr Gly Leu Val Thr
 450 455 460

Asn Thr Leu Ala Met Thr Glu Glu Glu Lys Asn Ile Lys Trp Gly
 465 470 475

<210> 1516

<211> 627

<212> PRT

<213> Homo sapiens

<400> 1516

Arg Gln Glu Leu Ile Trp Pro Leu Cys Ser Pro Pro Gln Gly Asp Arg
 1 5 10 15

Phe Leu Gln Lys Ser Trp Ile Phe Phe Arg Pro Val Met Ala Asp Lys
 20 25 30

Leu Thr Arg Ile Ala Ile Val Asn His Asp Lys Cys Lys Pro Lys Lys
 35 40 45

Cys Arg Gln Glu Cys Lys Lys Ser Cys Pro Val Val Arg Met Gly Lys
 50 55 60

Leu Cys Ile Glu Val Thr Pro Gln Ser Lys Ile Ala Trp Ile Ser Glu
 65 70 75 80

Thr Leu Cys Ile Gly Cys Gly Ile Cys Ile Lys Lys Cys Pro Phe Gly
 85 90 95

Ala Leu Ser Ile Val Asn Leu Pro Ser Asn Leu Glu Lys Glu Thr Thr
 100 105 110

His Arg Tyr Cys Ala Asn Ala Phe Lys Leu His Arg Leu Pro Ile Pro
 115 120 125

Arg Pro Gly Glu Val Leu Gly Leu Val Gly Thr Asn Gly Ile Gly Lys
 130 135 140

Ser Thr Ala Leu Lys Ile Leu Ala Gly Lys Gln Lys Pro Asn Leu Gly
 145 150 155 160

Lys Tyr Asp Asp Pro Pro Asp Trp Gln Glu Ile Leu Thr Tyr Phe Arg
 165 170 175

Gly Ser Glu Leu Gln Asn Tyr Phe Thr Lys Ile Leu Glu Asp Asp Leu
 180 185 190

Lys Ala Ile Ile Lys Pro Gln Tyr Val Asp Gln Ile Pro Lys Ala Ala
 195 200 205

Lys Gly Thr Val Gly Ser Ile Leu Asp Arg Lys Asp Glu Thr Lys Thr
 210 215 220

Gln Ala Ile Val Cys Gln Gln Leu Asp Leu Thr His Leu Lys Glu Arg
 225 230 235 240

Asn Val Glu Asp Leu Ser Gly Gly Glu Leu Gln Arg Phe Ala Cys Ala
 245 250 255

Val Val Cys Ile Gln Lys Ala Asp Ile Phe Met Phe Asp Glu Pro Ser
 260 265 270

Ser Tyr Leu Asp Val Lys Gln Arg Leu Lys Ala Ala Ile Thr Ile Arg
 275 280 285

Ser Leu Ile Asn Pro Asp Arg Tyr Ile Ile Val Val Glu His Asp Leu
 290 295 300

Ser Val Leu Asp Tyr Leu Ser Asp Phe Ile Cys Cys Leu Tyr Gly Val
 305 310 315 320

Pro Ser Ala Tyr Gly Val Val Thr Met Pro Phe Ser Val Arg Glu Gly
 325 330 335

Ile Asn Ile Phe Leu Asp Gly Tyr Val Pro Thr Glu Asn Leu Arg Phe
 340 345 350

Arg Asp Ala Ser Leu Val Phe Lys Val Ala Glu Thr Ala Asn Glu Glu
355 360 365

Glu Val Lys Lys Met Cys Met Tyr Lys Tyr Pro Gly Met Lys Lys Lys
370 375 380

Met Gly Glu Phe Glu Leu Ala Ile Val Ala Gly Glu Phe Thr Asp Ser
385 390 395 400

Glu Ile Met Val Met Leu Gly Glu Asn Gly Thr Gly Lys Thr Thr Phe
405 410 415

Ile Arg Met Leu Ala Gly Arg Leu Lys Pro Asp Glu Gly Gly Glu Val
420 425 430

Pro Val Leu Asn Val Ser Tyr Lys Pro Gln Lys Ile Ser Pro Lys Ser
435 440 445

Thr Gly Ser Val Arg Gln Leu Leu His Glu Lys Ile Arg Asp Ala Tyr
450 455 460

Thr His Pro Gln Phe Val Thr Asp Val Met Lys Pro Leu Gln Ile Glu
465 470 475 480

Asn Ile Ile Asp Gln Glu Val Gln Thr Leu Ser Gly Gly Glu Leu Gln
485 490 495

Arg Val Ala Leu Ala Leu Cys Leu Gly Lys Pro Ala Asp Val Tyr Leu
500 505 510

Ile Asp Glu Pro Ser Ala Tyr Leu Asp Ser Glu Gln Arg Leu Met Ala
515 520 525

Ala Arg Val Val Lys Arg Phe Ile Leu His Ala Lys Lys Thr Ala Phe
530 535 540

Val Val Glu His Asp Phe Ile Met Ala Thr Tyr Leu Ala Asp Arg Val
545 550 555 560

Ile Val Phe Asp Gly Val Pro Ser Lys Asn Thr Val Ala Asn Ser Pro
565 570 575

Gln Thr Leu Leu Ala Gly Met Asn Lys Phe Leu Ser Gln Leu Glu Ile
580 585 590

Thr Phe Arg Arg Asp Pro Asn Asn Tyr Arg Pro Arg Ile Asn Lys Leu
595 600 605

Asn Ser Ile Lys Asp Val Glu Gln Lys Lys Ser Gly Asn Tyr Phe Phe
610 615 620

Leu Asp Asp
625

<210> 1517

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1517

Ala Pro Gln Pro Pro Pro Thr Gly Gln Ser Asp Tyr Thr Lys Ala Trp
1 5 10 15

Glu Glu Tyr Tyr Lys Lys Ile Gly Gln Gln Pro Gln Gln Pro Gly Ala
20 25 30

Pro Pro Gln Gln Asp Tyr Thr Lys Ala Trp Glu Glu Tyr Tyr Lys Lys
35 40 45

Gln Ala Gln Val Ala Thr Gly Gly Val Gln Glu Leu Pro Gln Ala Pro
50 55 60

Ser Gln Thr Thr Val Pro Pro Gly Glu Tyr Tyr Arg Gln Gln Ala Ala
65 70 75 80

Tyr Tyr Gly Gln Thr Pro Gly Pro Gly Gly Pro Gln Xaa Xaa Pro Thr
85 90 95

Gln Gln Gly Gln Gln Gln Ala Gln
100

<210> 1518

<211> 149

<212> PRT

<213> Homo sapiens

<400> 1518

His Met Thr Thr Val Ser Pro Asp Cys Val Glu Cys Met Ala Cys Ser

1 5 10 15
 Asp Asn Thr Val Arg Ala Gly Leu Thr Pro Lys Phe Ile Asp Val Pro
 20 25 30
 Thr Leu Cys Glu Met Leu Ser Tyr Thr Pro Ser Ser Ser Lys Asp Arg
 35 40 45
 Leu Phe Leu Pro Thr Arg Ser Gln Glu Asp Pro Tyr Leu Ser Ile Tyr
 50 55 60
 Asp Pro Pro Val Pro Asp Phe Thr Ile Met Lys Thr Glu Val Pro Gly
 65 70 75 80
 Ser Val Thr Glu Tyr Lys Val Leu Ala Leu Asp Ser Ala Ser Ile Leu
 85 90 95
 Leu Met Val Gln Gly Thr Val Ile Ala Ser Thr Pro Thr Thr Gln Thr
 100 105 110
 Pro Ile Pro Leu Gln Arg Gly Gly Val Leu Phe Ile Gly Ala Asn Glu
 115 120 125
 Ser Val Ser Leu Lys Leu Thr Glu Pro Lys Asp Leu Leu Ile Phe Arg
 130 135 140
 Ala Cys Cys Leu Leu
 145

<210> 1519

<211> 616

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (262)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1519

Ser Trp Gln Val Gln Gly Pro Pro Pro Arg Glu Xaa Cys Pro Ser Cys
 1 5 10 15

Thr Gln Ser Ala Ile Arg Gly Ser Cys Thr Leu Leu Leu Arg Ala Gly

20					25					30						
Glu	Asp	Ser	Ala	Asp	Gln	Gly	Arg	Gly	Gln	Gln	Gln	His	Phe	His	Phe	
35					40					45						
His	Thr	Ser	Ile	Phe	Leu	Arg	Gly	Pro	Pro	Gly	Ser	Ser	Pro	Gln	Pro	
50					55					60						
Ala	Pro	Leu	Arg	Leu	Arg	Asp	Trp	Ala	Leu	Cys	Leu	Gly	Leu	His	Asn	
65					70					75					80	
Phe	Val	Ser	Pro	Asn	Trp	Leu	Ser	Arg	Thr	Tyr	Ser	Ser	His	Val	Ser	
85					90					95						
Trp	Ile	Thr	Gly	Gln	Ala	Met	Glu	Ile	Gly	Ser	Ala	Ala	Leu	Thr	Ile	
100					105					110						
Leu	Val	Glu	Cys	Trp	Asp	Gly	His	Leu	Thr	Pro	Pro	Glu	Val	Ala	Ser	
115					120					125						
Leu	Ala	Asp	Arg	Ala	Ser	Arg	Ala	Arg	Asp	Ser	Asn	Met	Val	Arg	Ala	
130					135					140						
Ala	Ala	Glu	Leu	Ala	Leu	Ser	Cys	Leu	Pro	His	Ala	His	Ala	Leu	Asn	
145					150					155					160	
Pro	Asn	Glu	Ile	Gln	Arg	Ala	Leu	Val	Gln	Cys	Lys	Glu	Gln	Asp	Asn	
165					170					175						
Leu	Met	Leu	Glu	Lys	Ala	Cys	Met	Ala	Val	Glu	Glu	Ala	Ala	Lys	Gly	
180					185					190						
Gly	Gly	Val	Tyr	Pro	Glu	Val	Leu	Phe	Glu	Val	Ala	His	Gln	Trp	Phe	
195					200					205						
Trp	Leu	Tyr	Glu	Gln	Thr	Ala	Gly	Gly	Ser	Ser	Thr	Ala	Arg	Glu	Gly	
210					215					220						
Ala	Thr	Ser	Cys	Ser	Ala	Ser	Gly	Ile	Arg	Ala	Gly	Gly	Glu	Ala	Gly	
225					230					235					240	
Arg	Gly	Met	Pro	Glu	Gly	Arg	Gly	Gly	Pro	Gly	Thr	Glu	Pro	Val	Thr	
245					250					255						
Val	Ala	Ala	Ala	Gln	Xaa	Thr	Ala	Ala	Ala	Thr	Val	Val	Pro	Val	Ile	
260					265					270						
Ser	Val	Gly	Ser	Ser	Leu	Tyr	Pro	Gly	Pro	Gly	Leu	Gly	His	Gly	His	
275					280					285						
Ser	Pro	Gly	Leu	His	Pro	Tyr	Thr	Ala	Leu	Gln	Pro	His	Leu	Pro	Cys	

290	295	300
Ser Pro Gln Tyr Leu Thr His Pro Ala His Pro Ala His Pro Met Pro		
305	310	315 320
His Met Pro Arg Pro Ala Val Phe Pro Val Pro Ser Ser Ala Tyr Pro		
	325	330 335
Gln Gly Val His Pro Ala Phe Leu Gly Ala Gln Tyr Pro Tyr Ser Val		
	340	345 350
Thr Pro Pro Ser Leu Ala Ala Thr Ala Val Ser Phe Pro Val Pro Ser		
	355	360 365
Met Ala Pro Ile Thr Val His Pro Tyr His Thr Glu Pro Gly Leu Pro		
	370	375 380
Leu Pro Thr Ser Val Ala Leu Ser Ser Val His Pro Ala Ser Thr Phe		
	385	390 395 400
Pro Ala Ile Gln Gly Ala Ser Leu Pro Ala Leu Thr Thr Gln Pro Ser		
	405	410 415
Pro Leu Val Ser Gly Gly Phe Pro Pro Pro Glu Glu Glu Thr His Ser		
	420	425 430
Gln Pro Val Asn Pro His Ser Leu His His Leu His Ala Ala Tyr Arg		
	435	440 445
Val Gly Met Leu Ala Leu Glu Met Leu Gly Arg Arg Ala His Asn Asp		
	450	455 460
His Pro Asn Asn Phe Ser Arg Ser Pro Pro Tyr Thr Asp Asp Val Lys		
	465	470 475 480
Trp Leu Leu Gly Leu Ala Ala Lys Leu Gly Val Asn Tyr Val His Gln		
	485	490 495
Phe Cys Val Gly Ala Ala Lys Gly Val Leu Ser Pro Phe Val Leu Gln		
	500	505 510
Glu Ile Val Met Glu Thr Leu Gln Arg Leu Ser Pro Ala His Ala His		
	515	520 525
Asn His Leu Arg Ala Pro Ala Phe His Gln Leu Val Gln Arg Cys Gln		
	530	535 540
Gln Ala Tyr Met Gln Tyr Ile His His Arg Leu Ile His Leu Thr Pro		
	545	550 555 560
Ala Asp Tyr Asp Asp Phe Val Asn Ala Ile Arg Ser Ala Arg Ser Ala		

565 570 575

Phe Cys Leu Thr Pro Met Gly Met Met Gln Phe Asn Asp Ile Leu Gln
580 585 590

Asn Leu Lys Arg Ser Lys Gln Thr Lys Glu Leu Trp Gln Arg Val Ser
595 600 605

Leu Glu Met Ala Thr Phe Ser Pro
610 615

<210> 1520
<211> 159
<212> PRT
<213> Homo sapiens

<400> 1520

Glu Gly Ser Arg Pro Pro Leu Cys Arg Ser Cys Ile Ser Ala Glu Ser
1 5 10 15

Val Phe Gln Pro Gln Leu Val Ala Pro Leu Ala Pro Leu Leu Pro Asp
20 25 30

Gly His Val Phe Val Thr Leu Glu Asn Lys Gln Pro His Thr His Phe
35 40 45

Phe Phe Ser Phe Lys Thr Val Thr Trp Lys Tyr Glu Lys Ala Arg Arg
50 55 60

Arg Ser Lys Gly Cys Phe Leu Glu Trp Leu Arg Cys Cys Pro Ala Val
65 70 75 80

Val Ile Val Phe Ser Thr Gly Leu Phe Pro Phe Ile Ser Cys Gly Thr
85 90 95

Glu Ser Leu Leu Pro Pro Leu Leu Gly Ser Pro Gly Gly Pro Trp Pro
100 105 110

Pro Phe Arg Leu Ser Lys Lys Pro Thr Thr Leu Glu Ile Phe Phe Leu
115 120 125

Glu Phe Arg Cys Phe Leu Leu Leu Pro Leu Asp Lys Lys Gln Leu Lys
130 135 140

Arg Pro Tyr Leu Arg Asp Glu Lys Asn Met His Ile Asn Ser Ile
145 150 155

<210> 1521

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1521

Glu	Trp	Ala	Glu	Cys	Arg	Gly	Gln	Leu	Val	Gln	Xaa	Ser	Arg	Pro	Glu
1				5				10						15	
Val	Ser	Ala	Gly	Ser	Leu	Leu	Leu	Pro	Ala	Pro	Gln	Ala	Glu	Asp	His
			20					25					30		
Ser	Ser	Arg	Ile	Leu	Tyr	Pro	Arg	Pro	Lys	Ser	Leu	Leu	Pro	Lys	Met
		35					40					45			
Met	Asn	Ala	Asp	Met	Asp	Ala	Val	Asp	Ala	Glu	Asn	Gln	Val	Glu	Leu
	50					55					60				
Glu	Glu	Lys	Thr	Arg	Leu	Ile	Asn	Gln	Val	Leu	Glu	Leu	Gln	His	Thr
65					70				75					80	
Leu	Glu	Asp	Leu	Ser	Ala	Arg	Val	Asp	Ala	Val	Lys	Glu	Glu	Asn	Leu
			85						90					95	
Lys	Leu	Lys	Ser	Glu	Asn	Gln	Val	Leu	Gly	Gln	Tyr	Ile	Glu	Asn	Leu
		100						105					110		
Met	Ser	Ala	Ser	Ser	Val	Phe	Gln	Thr	Thr	Asp	Thr	Lys	Ser	Lys	Arg
		115					120					125			

Lys

<210> 1522

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<210> 1524

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1524

Ile Leu Asn Val Lys Ile Ile Asp Leu Asp Ile Glu Ser Ile Ser Asp
1 5 10 15

Ser Arg Asp Thr Pro Ile Cys Leu Lys Gln Pro Lys Met Tyr Trp Leu
20 25 30

Trp Asn His Val Leu Asp Arg Phe Leu Arg Pro Val Ser Ser Asn Leu
35 40 45

Asp Thr Val Phe Lys Gly Gly Leu Leu Thr Cys Thr Val Gly Gln Ile
50 55 60

Ile Gln Ile Tyr Leu Arg Leu Gly Lys Lys Val Ile Cys Asp Phe Ala
65 70 75 80

Gly Arg Ala Phe Ala Lys Trp Ser Thr Gly Ser Lys Arg Val Phe Leu
85 90 95

Glu Arg Ala Ile Leu Ser Asn Glu Val Ser Xaa Arg Thr Leu Gly
100 105 110

<210> 1525

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1525

Leu Ser Gln Arg Gln Asp Gln Val Pro Arg Leu Pro Val Gln Lys Ser
1 5 10 15

Arg Gln Glu Ser Pro Arg Ala Glu Glu Asn Pro Lys Trp Arg Glu Gly
20 25 30

Lys Lys Glu Thr Ser Glu Ser Ser Val Gln Lys Ala Gly Arg Ala Ala
35 40 45

Ala Ala Gln Ala Gly Ala Ala Ala Ser Arg Val Pro Gly Leu Ser Gly
50 55 60

Ser Asn Leu Ala Pro Cys Asn Lys Gly Arg Leu Ser Ala Arg Glu Asp
65 70 75 80

Val Ser Asn Ser Lys Met Gln Ala Gln Gln Tyr Gln Gln Gln Arg Arg
85 90 95

Lys Phe Ala Ala Ala Phe Leu Ala Phe Ile Phe Ile Leu Ala Ala Val
100 105 110

Asp Thr Ala Glu Ala Gly Lys Lys Glu Lys Pro Glu Lys Lys Val Lys
115 120 125

Lys Ser Asp Cys Gly Glu Trp Gln Trp Ser Val Cys Val Pro Thr Ser
130 135 140

Gly Asp Cys Gly Leu Gly Thr Arg Glu Gly Thr Arg Thr Gly Ala Glu
145 150 155 160

Cys Lys Gln Thr Met Lys Thr Gln Arg Cys Lys Ile Pro Cys Asn Trp
165 170 175

Lys Lys Gln Phe Gly Ala Glu Cys Lys Tyr Gln Phe Gln Ala Trp Gly
180 185 190

Glu Cys Asp Leu Asn Thr Ala Leu Lys Thr Arg Thr Gly Ser Leu Lys
195 200 205

Arg Ala Leu His Asn Ala Glu Cys Gln Lys Thr Val Thr Ile Ser Lys
210 215 220

Pro Cys Gly Lys Leu Thr Lys Pro Lys Pro Gln Ala Glu Ser Lys Lys
225 230 235 240

Lys Lys Lys Glu Gly Lys Lys Gln Glu Lys Met Leu Asp
245 250

<210> 1526

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1526

Pro Cys Thr Lys Arg Asn Gly Asp Cys Leu Tyr Pro Pro Arg Phe Ile
1 5 10 15

Ser Trp Pro Glu Val Ile Leu Ala Ser Arg Lys Gly Cys Thr Ser Ser

20 25 30
 His His Gln Leu Gln Arg Met Ala Ala Ile Tyr Leu Ser Arg Gly Phe
 35 40 45
 Phe Ser Arg Glu Pro Ile Cys Pro Phe Glu Glu Lys Thr Lys Val Glu
 50 55 60
 Arg Met Val Glu Asp Tyr Leu Ala Ser Gly Tyr Gln Val Ser Arg Lys
 65 70 75 80
 Arg Thr Val Val Lys Asn Asp Met Leu Ser Ser Asn Arg
 85 90

<210> 1527

<211> 276

<212> PRT

<213> Homo sapiens

<400> 1527

Phe Phe Ile Asp His Asn Thr Lys Thr Thr Thr Trp Glu Asp Pro Arg
 1 5 10 15
 Leu Lys Phe Pro Val His Met Arg Ser Lys Thr Ser Leu Asn Pro Asn
 20 25 30
 Asp Leu Gly Pro Leu Pro Pro Gly Trp Glu Glu Arg Ile His Leu Asp
 35 40 45
 Gly Arg Thr Phe Tyr Ile Asp His Asn Ser Lys Ile Thr Gln Trp Glu
 50 55 60
 Asp Pro Arg Leu Gln Asn Pro Ala Ile Thr Gly Pro Ala Val Pro Tyr
 65 70 75 80
 Ser Arg Glu Phe Lys Gln Lys Tyr Asp Tyr Phe Arg Lys Lys Leu Lys
 85 90 95
 Lys Pro Ala Asp Ile Pro Asn Arg Phe Glu Met Lys Leu His Arg Asn
 100 105 110
 Asn Ile Phe Glu Glu Ser Tyr Arg Arg Ile Met Ser Val Lys Arg Pro
 115 120 125
 Asp Val Leu Lys Ala Arg Leu Trp Ile Glu Phe Glu Ser Glu Lys Gly
 130 135 140
 Leu Asp Tyr Gly Gly Val Ala Arg Glu Trp Phe Phe Leu Leu Ser Lys
 145 150 155 160

Glu Met Phe Asn Pro Tyr Tyr Gly Leu Phe Glu Tyr Ser Ala Thr Asp
 165 170 175
 Asn Tyr Thr Leu Gln Ile Asn Pro Asn Ser Gly Leu Cys Asn Glu Asp
 180 185 190
 His Leu Ser Tyr Phe Thr Phe Ile Gly Arg Val Ala Gly Leu Ala Val
 195 200 205
 Phe His Gly Lys Leu Leu Asp Gly Phe Phe Ile Arg Pro Phe Tyr Lys
 210 215 220
 Met Met Leu Gly Lys Gln Ile Thr Leu Asn Asp Met Glu Ser Val Asp
 225 230 235 240
 Ser Glu Tyr Tyr Asn Ser Leu Lys Trp Ile Leu Glu Asn Asp Pro Thr
 245 250 255
 Glu Leu Asp Leu Met Phe Cys Ile Asp Glu Glu Asn Phe Gly Gln Thr
 260 265 270
 Ser Thr Gly Arg
 275

<210> 1528

<211> 307

<212> PRT

<213> Homo sapiens

<400> 1528

Val Met Asp Leu Val Leu Arg Val Ala Asp Tyr Tyr Phe Phe Thr Pro
 1 5 10 15
 Tyr Val Tyr Pro Ala Thr Trp Pro Glu Asp Asp Ile Phe Arg Gln Ala
 20 25 30
 Ile Ser Leu Leu Ile Val Thr Asn Val Gly Ala Tyr Ile Leu Tyr Phe
 35 40 45
 Phe Cys Ala Thr Leu Ser Tyr Tyr Phe Val Phe Asp His Ala Leu Met
 50 55 60
 Lys His Pro Gln Phe Leu Lys Asn Gln Val Arg Arg Glu Ile Lys Phe
 65 70 75 80
 Thr Val Gln Ala Leu Pro Trp Ile Ser Ile Leu Thr Val Ala Leu Phe
 85 90 95

Leu Leu Glu Ile Arg Gly Tyr Ser Lys Leu His Asp Asp Leu Gly Glu
100 105 110

Phe Pro Tyr Gly Leu Phe Glu Leu Val Val Ser Ile Ile Ser Phe Leu
115 120 125

Phe Phe Thr Asp Met Phe Ile Tyr Trp Ile His Arg Gly Leu His His
130 135 140

Arg Leu Val Tyr Lys Arg Leu His Lys Pro His His Ile Trp Lys Ile
145 150 155 160

Pro Thr Pro Phe Ala Ser His Ala Phe His Pro Ile Asp Gly Phe Leu
165 170 175

Gln Ser Leu Pro Tyr His Ile Tyr Pro Phe Ile Phe Pro Leu His Lys
180 185 190

Val Val Tyr Leu Ser Leu Tyr Ile Leu Val Asn Ile Trp Thr Ile Ser
195 200 205

Ile His Asp Gly Asp Phe Arg Val Pro Gln Ile Leu Gln Pro Phe Ile
210 215 220

Asn Gly Ser Ala His His Thr Asp His His Met Phe Phe Asp Tyr Asn
225 230 235 240

Tyr Gly Gln Tyr Phe Thr Leu Trp Asp Arg Ile Gly Gly Ser Phe Lys
245 250 255

Asn Pro Ser Ser Phe Glu Gly Lys Gly Pro Leu Ser Tyr Val Lys Glu
260 265 270

Met Thr Glu Gly Lys Arg Thr Ala Ile Gln Glu Met Ala Val Arg Met
275 280 285

Lys Asn Tyr Ser Met Glu Ser Leu Gln Arg Leu Asn Arg Leu Leu Pro
290 295 300

Ser Tyr Ser
305

<210> 1529

<211> 233

<212> PRT

<213> Homo sapiens

<400> 1529

Thr Pro Tyr Ala Ser Leu Pro Met Gln Thr Ile Gln Glu Asn Lys Pro

1	5	10	15
Ala Thr Phe Ser Ser Met Ser His Tyr Gly Asn Gln Thr Leu Gln Asp			
20	25	30	
Leu Leu Thr Ser Asp Ser Leu Ser His Ser Asp Val Met Met Thr Gln			
35	40	45	
Ser Asp Pro Leu Met Ser Gln Ala Ser Thr Ala Val Ser Ala Gln Asn			
50	55	60	
Ser Arg Arg Asn Val Met Leu Arg Asn Asp Pro Met Met Ser Phe Ala			
65	70	75	80
Ala Gln Pro Asn Gln Gly Ser Leu Val Asn Gln Asn Leu Leu His His			
85	90	95	
Gln His Gln Thr Gln Gly Ala Leu Gly Gly Ser Arg Ala Leu Ser Asn			
100	105	110	
Ser Val Ser Asn Met Gly Leu Ser Glu Ser Ser Ser Leu Gly Ser Ala			
115	120	125	
Lys His Gln Gln Gln Ser Pro Val Ser Gln Ser Met Gln Thr Leu Ser			
130	135	140	
Asp Ser Leu Ser Gly Ser Ser Leu Tyr Ser Thr Ser Ala Asn Leu Pro			
145	150	155	160
Val Met Gly His Glu Lys Phe Pro Ser Asp Leu Asp Leu Asp Met Phe			
165	170	175	
Asn Gly Ser Leu Glu Cys Asp Met Glu Ser Ile Ile Arg Ser Glu Leu			
180	185	190	
Met Asp Ala Asp Gly Leu Asp Phe Asn Phe Asp Ser Leu Ile Ser Thr			
195	200	205	
Gln Asn Val Val Gly Leu Asn Val Gly Asn Phe Thr Gly Ala Lys Gln			
210	215	220	
Ala Ser Ser Gln Ser Trp Val Pro Gly			
225	230		

<210> 1530

<211> 363

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1530

Ala	His	Arg	Leu	Leu	Val	His	Arg	Asp	Val	Cys	His	His	Val	Ser	Ser
1				5					10					15	

Glu	Val	Gln	Phe	Gly	His	Ala	Gly	Ala	Cys	Ala	Asn	Gln	Ala	Ser	Glu
			20					25					30		

Thr	Ala	Val	Ala	Lys	Asn	Gln	Ala	Leu	Lys	Glu	Ala	Gly	Val	Phe	Val
			35					40					45		

Pro	Arg	Ser	Phe	Asp	Glu	Leu	Gly	Glu	Ile	Ile	Gln	Ser	Val	Tyr	Glu
		50				55					60				

Asp	Leu	Val	Ala	Asn	Gly	Val	Ile	Val	Pro	Ala	Gln	Glu	Val	Pro	Pro
65					70					75					80

Pro	Thr	Val	Pro	Met	Asp	Tyr	Ser	Trp	Ala	Arg	Glu	Leu	Gly	Leu	Ile
				85					90					95	

Arg	Lys	Pro	Ala	Ser	Phe	Met	Thr	Ser	Ile	Cys	Asp	Glu	Arg	Gly	Gln
			100						105					110	

Glu	Leu	Ile	Tyr	Ala	Gly	Met	Pro	Ile	Thr	Glu	Val	Phe	Lys	Glu	Glu
		115						120				125			

Met	Gly	Ile	Gly	Gly	Val	Leu	Gly	Leu	Leu	Trp	Phe	Gln	Lys	Arg	Leu
130						135					140				

Pro	Lys	Tyr	Ser	Cys	Gln	Phe	Ile	Glu	Met	Cys	Leu	Met	Val	Thr	Ala
145					150					155					160

Asp	His	Gly	Pro	Ala	Val	Ser	Gly	Ala	His	Asn	Thr	Ile	Ile	Cys	Ala
				165					170					175	

Arg	Xaa	Xaa	Lys	Asp	Leu	Val	Ser	Ser	Leu	Thr	Ser	Gly	Leu	Leu	Thr
			180						185				190		

Ile	Gly	Asp	Arg	Phe	Gly	Gly	Ala	Leu	Asp	Ala	Ala	Ala	Lys	Met	Phe
		195					200					205			

Ser	Lys	Ala	Phe	Asp	Ser	Gly	Ile	Ile	Pro	Met	Glu	Phe	Val	Asn	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

210 215 220
Met Lys Lys Glu Gly Lys Leu Ile Met Gly Ile Gly His Arg Val Lys
225 230 235 240
Ser Ile Asn Asn Pro Asp Met Arg Val Gln Ile Leu Lys Asp Tyr Val
245 250 255
Arg Gln His Phe Pro Ala Thr Pro Leu Leu Asp Tyr Ala Leu Glu Val
260 265 270
Glu Lys Ile Thr Thr Ser Lys Lys Pro Asn Leu Ile Leu Asn Val Asp
275 280 285
Gly Leu Ile Gly Val Ala Phe Val Asp Met Leu Arg Asn Cys Gly Ser
290 295 300
Phe Thr Arg Glu Glu Ala Asp Glu Tyr Ile Asp Ile Gly Ala Leu Asn
305 310 315 320
Gly Ile Phe Val Leu Gly Arg Ser Met Gly Phe Ile Gly His Tyr Leu
325 330 335
Asp Gln Lys Arg Leu Lys Gln Gly Leu Tyr Arg His Pro Trp Asp Asp
340 345 350
Ile Ser Tyr Val Leu Pro Glu His Met Ser Met
355 360

<210> 1531

<211> 397

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1531

Ser Val Ser Ala Ser Glu Val Thr Ser Thr Val Tyr Asn Thr Val Ser
 1 5 10 15

Glu Gly Thr His Phe Leu Glu Thr Ile Glu Thr Pro Arg Pro Gly Lys
 20 25 30

Leu Phe Pro Lys Asp Val Ser Ser Ser Thr Pro Pro Ser Val Thr Ser
 35 40 45

Lys Ser Arg Val Ser Arg Leu Ala Gly Arg Lys Thr Asn Glu Ser Val
 50 55 60

Ser Glu Pro Arg Lys Gly Phe Met Tyr Ser Arg Asn Thr Asn Glu Asn
 65 70 75 80

Pro Gln Glu Cys Phe Asn Ala Ser Lys Leu Leu Thr Ser His Gly Met
 85 90 95

Gly Ile Gln Val Pro Leu Asn Ala Thr Glu Phe Asn Tyr Leu Cys Pro
 100 105 110

Ala Ile Ile Asn Gln Ile Asp Ala Arg Ser Cys Leu Ile His Thr Ser
 115 120 125

Glu Lys Lys Ala Glu Ile Pro Pro Lys Thr Tyr Ser Leu Gln Ile Ala
 130 135 140

Trp Val Gly Gly Phe Ile Ala Ile Ser Ile Ile Ser Phe Leu Ser Leu
 145 150 155 160

Leu Gly Val Ile Leu Val Pro Leu Met Asn Arg Val Phe Phe Lys Phe
 165 170 175

Leu Leu Xaa Xaa Xaa Val Ala Leu Ala Val Gly Thr Leu Ser Gly Asp
 180 185 190

Ala Phe Leu His Leu Leu Pro His Ser His Ala Ser His His His Ser
 195 200 205

His Ser His Glu Glu Pro Ala Met Glu Met Lys Arg Gly Pro Leu Phe
 210 215 220

Ser His Leu Ser Ser Gln Asn Ile Glu Glu Ser Ala Tyr Phe Asp Ser
 225 230 235 240

Thr Trp Lys Gly Leu Thr Ala Leu Gly Gly Leu Tyr Phe Met Phe Leu
245 250 255

Val Glu His Val Leu Thr Leu Ile Lys Gln Phe Lys Asp Lys Lys Lys
260 265 270

Lys Asn Gln Lys Lys Pro Glu Asn Asp Asp Asp Val Glu Ile Lys Lys
275 280 285

Gln Leu Ser Lys Tyr Glu Ser Gln Leu Ser Thr Asn Glu Glu Lys Val
290 295 300

Asp Thr Asp Asp Arg Thr Glu Gly Tyr Leu Arg Ala Asp Ser Gln Glu
305 310 315 320

Pro Ser His Phe Asp Ser Gln Gln Pro Ala Val Leu Glu Glu Glu Glu
325 330 335

Val Met Ile Ala His Ala His Pro Gln Glu Val Tyr Asn Glu Tyr Val
340 345 350

Pro Arg Gly Cys Lys Xaa Lys Cys His Ser His Phe His Asp Thr Leu
355 360 365

Gly Gln Ser Asp Asp Leu Ile His His His His Asp Phe Phe Lys Lys
370 375 380

Lys Lys Lys Lys Lys Lys Ile Lys Lys Lys Gln Lys Lys
385 390 395

<210> 1532

<211> 130

<212> PRT

<213> Homo sapiens

<400> 1532

Val Trp His Phe Ile Leu Phe Leu Cys Cys Trp Leu Cys Ile Leu Glu
1 5 10 15

Gly Lys Lys Leu Leu Lys Gln Thr Ser Gln Phe Phe Phe Leu Phe Ser
20 25 30

Asn Tyr Pro Val Gly Asn Ser Gln Tyr Gly Gln Gln Gln Asp Ala Tyr
35 40 45

Gln Gly Pro Pro Pro Gln Gln Gly Tyr Pro Pro Gln Gln Gln Tyr
50 55 60

Pro Gly Gln Gln Gly Tyr Pro Gly Gln Gln Gln Gly Tyr Gly Pro Ser

[illegible]

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<210> 1533
<211> 53
<212> PRT
<213> Homo sapiens
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<400> 1533
Ala Ile Leu Asp Leu Tyr Asn Pro Leu Asp Ala Ser Ala Tyr Arg Phe
 1             5             10             15

Lys Met His Pro Val Val Phe Val Ala Phe Ser Ile Leu Ser Phe Leu
      20             25             30

Met Cys Pro Ile Asn Lys Gln Phe Tyr Leu Lys Phe Lys Lys Lys Lys
      35             40             45

Lys Lys Lys Lys Arg
      50

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<210> 1534
<211> 93
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 1534

Gly Ala Ser Ala Arg Pro Pro Glu Arg Gly Pro His Pro Xaa Ala Ala
 1 5 10 15

Arg Asp Pro Arg Gly Pro Pro Leu Pro Leu Ser Phe Ser Ser Ala Pro
 20 25 30

Thr Asp Thr Phe His Ser Glu Val Ser Pro Ser Pro Leu Leu Lys Ser
 35 40 45

Pro Arg Ser Pro Leu His Pro Glu Val Ser Leu Tyr Arg Asp Pro Pro
 50 55 60

Ser Phe His Pro Glu Asp Arg Pro Asn Pro Arg Ser Pro Pro Leu Ser
 65 70 75 80

Xaa Ser Glu Arg Ala Ser Phe Gly Pro Lys Gln Pro Gly
 85 90

<210> 1535

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1535

Pro Glu Ser Leu Gly Gly Ser Pro Gly Pro Pro Arg Pro Arg Gln Ser
 1 5 10 15

Cys Ser Glu Thr Ser Val Val Leu Lys Cys His Ser Pro Arg Pro Gly
 20 25 30

Arg His Arg Ser Pro Glu Ser Trp Ala Leu Gly Thr Leu Glu Ala Ala
 35 40 45

Ala Pro Gly Thr Arg Gly Arg Pro Gly Ala Gly Glu Leu Arg Cys Trp
50 55 60
Glu Arg Ala Val Phe Ala Asp Ser Gly Gly Xaa Gly Gly Ser Arg Pro
65 70 75 80
Gly Ser Xaa Pro Gly Met Thr Met Leu Met Glu Leu Met Gly Gln Glu
85 90 95
Trp Glu Arg Arg Ser Ala Ala Phe Cys Xaa Cys Ala Ser Ile Ala Lys
100 105 110
Phe His Ser Pro Ser Ser Ala Ala Leu Leu Leu Ala Cys Gly Ser Pro
115 120 125
Arg Tyr Asn Phe Trp Ser Cys Leu Phe Leu Leu Met Ser Phe Thr Val
130 135 140
Asn Lys Phe Asp Cys His
145 150

<210> 1536
<211> 74
<212> PRT
<213> Homo sapiens

<400> 1536
Leu Thr Tyr Ser Lys Asn Ala Pro Ile Leu Ser Asn Ser Met Pro Phe
1 5 10 15
Asp Lys Cys Ser Val Pro Met Pro Arg Pro Pro Gln Ser Arg Glu Asn
20 25 30
Ile Phe Ile Thr Pro Glu Gly Leu Leu Cys Ser Glu Tyr Ser Leu Gly
35 40 45
Val Pro Ala Ala Gly Asp Ile Asp Leu Phe Ser Val Thr Val Asp Glu
50 55 60
Ile Cys Leu Leu Tyr Thr Ile Phe Lys Asn
65 70

<210> 1537
<211> 224
<212> PRT
<213> Homo sapiens

<400> 1537

Gly Thr Ser Arg Pro Val Ala Pro Glu Cys Thr Glu Asp Gly Gly Cys
1 5 10 15
Cys Arg Thr Val Ala Pro Ser Val Gly Ser Ser Cys His Ala Pro Ala
20 25 30
Val Thr Gln His Ala Pro Tyr Phe Lys Gly Thr Ala Val Val Asn Gly
35 40 45
Glu Phe Lys Asp Leu Ser Leu Asp Asp Phe Lys Gly Lys Tyr Leu Val
50 55 60
Leu Phe Phe Tyr Pro Leu Asp Phe Thr Phe Val Cys Pro Thr Glu Ile
65 70 75 80
Val Ala Phe Ser Asp Lys Ala Asn Glu Phe His Asp Val Asn Cys Glu
85 90 95
Val Val Ala Val Ser Val Asp Ser His Phe Ser His Leu Ala Trp Ile
100 105 110
Asn Thr Pro Arg Lys Asn Gly Gly Leu Gly His Met Asn Ile Ala Leu
115 120 125
Leu Ser Asp Leu Thr Lys Gln Ile Ser Arg Asp Tyr Gly Val Leu Leu
130 135 140
Glu Gly Ser Gly Leu Ala Leu Arg Gly Leu Phe Ile Ile Asp Pro Asn
145 150 155 160
Gly Val Ile Lys His Leu Ser Val Asn Asp Leu Pro Val Gly Arg Ser
165 170 175
Val Glu Glu Thr Leu Arg Leu Val Lys Ala Phe Gln Tyr Val Glu Thr
180 185 190
His Gly Glu Val Cys Pro Ala Asn Trp Thr Pro Asp Ser Pro Thr Ile
195 200 205
Lys Pro Ser Pro Ala Ala Ser Lys Glu Tyr Phe Gln Lys Val Asn Gln
210 215 220

<210> 1538

<211> 524

<212> PRT

<213> Homo sapiens

<400> 1538

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Ser Ile Met Asn Ile Asn Asp Leu Lys Leu Thr Leu Ser Lys Ala Gly
 1             5             10             15

Gln Glu His Leu Leu Arg Phe Trp Asn Glu Leu Glu Glu Ala Gln Gln
      20             25             30

Val Glu Leu Tyr Ala Glu Leu Gln Ala Met Asn Phe Glu Glu Leu Asn
      35             40             45

Phe Phe Phe Gln Lys Ala Ile Glu Gly Phe Asn Gln Ser Ser His Gln
      50             55             60

Lys Asn Val Asp Ala Arg Met Glu Pro Val Pro Arg Glu Val Leu Gly
      65             70             75             80

Ser Ala Thr Arg Asp Gln Asp Gln Leu Gln Ala Trp Glu Ser Glu Gly
      85             90             95

Leu Phe Gln Ile Ser Gln Asn Lys Val Ala Val Leu Leu Leu Ala Gly
      100            105            110

Gly Gln Gly Thr Arg Leu Gly Val Ala Tyr Pro Lys Gly Met Tyr Asp
      115            120            125

Val Gly Leu Pro Ser Arg Lys Thr Leu Phe Gln Ile Gln Ala Glu Arg
      130            135            140

Ile Leu Lys Leu Gln Gln Val Ala Glu Lys Tyr Tyr Gly Asn Lys Cys
      145            150            155            160

Ile Ile Pro Trp Tyr Ile Met Thr Ser Gly Arg Thr Met Glu Ser Thr
      165            170            175

Lys Glu Phe Phe Thr Lys His Lys Tyr Phe Gly Leu Lys Lys Glu Asn
      180            185            190

Val Ile Phe Phe Gln Gln Gly Met Leu Pro Ala Met Ser Phe Asp Gly
      195            200            205

Lys Ile Ile Leu Glu Glu Lys Asn Lys Val Ser Met Ala Pro Asp Gly
      210            215            220

Asn Gly Gly Leu Tyr Arg Ala Leu Ala Ala Gln Asn Ile Val Glu Asp
      225            230            235            240

Met Glu Gln Arg Gly Ile Trp Ser Ile His Val Tyr Cys Val Asp Asn
      245            250            255

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Ile Leu Val Lys Val Ala Asp Pro Arg Phe Ile Gly Phe Cys Ile Gln
 260 265 270
 Lys Gly Ala Asp Cys Gly Ala Lys Val Val Glu Lys Thr Asn Pro Thr
 275 280 285
 Glu Pro Val Gly Val Val Cys Arg Val Asp Gly Val Tyr Gln Val Val
 290 295 300
 Glu Tyr Ser Glu Ile Ser Leu Ala Thr Ala Gln Lys Arg Ser Ser Asp
 305 310 315 320
 Gly Arg Leu Leu Phe Asn Ala Gly Asn Ile Ala Asn His Phe Phe Thr
 325 330 335
 Val Pro Phe Leu Arg Asp Val Val Asn Val Tyr Glu Pro Gln Leu Gln
 340 345 350
 His His Val Ala Gln Lys Lys Ile Pro Tyr Val Asp Thr Gln Gly Gln
 355 360 365
 Leu Ile Lys Pro Asp Lys Pro Asn Gly Ile Lys Met Glu Lys Phe Val
 370 375 380
 Phe Asp Ile Phe Gln Phe Ala Lys Lys Phe Val Val Tyr Glu Val Leu
 385 390 395 400
 Arg Glu Asp Glu Phe Ser Pro Leu Lys Asn Ala Asp Ser Gln Asn Gly
 405 410 415
 Lys Asp Asn Pro Thr Thr Ala Arg His Ala Leu Met Ser Leu His His
 420 425 430
 Cys Trp Val Leu Asn Ala Gly Gly His Phe Ile Asp Glu Asn Gly Ser
 435 440 445
 Arg Leu Pro Ala Ile Pro Arg Ser Ala Thr Asn Gly Lys Ser Glu Thr
 450 455 460
 Ile Thr Ala Asp Val Asn His Asn Leu Lys Asp Ala Asn Asp Val Pro
 465 470 475 480
 Ile Gln Cys Glu Ile Ser Pro Leu Ile Ser Tyr Ala Gly Glu Gly Leu
 485 490 495
 Glu Ser Tyr Val Ala Asp Lys Glu Phe His Ala Pro Leu Ile Ile Asp
 500 505 510
 Glu Asn Gly Val His Glu Leu Val Lys Asn Gly Ile
 515 520

<210> 1539

<211> 336

<212> PRT

<213> Homo sapiens

<400> 1539

His Phe Ile Phe Leu Leu Lys Asn Phe Gln Gln Ser Ser Asn Asp Thr
 1 5 10 15

Phe Pro Thr Ala Met His Ile Ala Ala Ala Ile Glu Val His Glu Val
 20 25 30

Leu Leu Pro Gly Leu Gln Lys Leu His Asp Ala Leu Asp Ala Lys Ser
 35 40 45

Lys Glu Phe Ala Gln Ile Ile Lys Ile Gly Arg Thr His Thr Gln Asp
 50 55 60

Ala Val Pro Leu Thr Leu Gly Gln Glu Phe Ser Gly Tyr Val Gln Gln
 65 70 75 80

Val Lys Tyr Ala Met Thr Arg Ile Lys Ala Ala Met Pro Arg Ile Tyr
 85 90 95

Glu Leu Ala Ala Gly Gly Thr Ala Val Gly Thr Gly Leu Asn Thr Arg
 100 105 110

Ile Gly Phe Ala Glu Lys Val Ala Ala Lys Val Ala Ala Leu Thr Gly
 115 120 125

Leu Pro Phe Val Thr Ala Pro Asn Lys Phe Glu Ala Leu Ala Ala His
 130 135 140

Asp Ala Leu Val Glu Leu Ser Gly Ala Met Asn Thr Thr Ala Cys Ser
 145 150 155 160

Leu Met Lys Ile Ala Asn Asp Ile Arg Phe Leu Gly Ser Gly Pro Arg
 165 170 175

Ser Gly Leu Gly Glu Leu Ile Leu Pro Glu Asn Glu Pro Gly Ser Ser
 180 185 190

Ile Met Pro Gly Lys Val Asn Pro Thr Gln Cys Glu Ala Met Thr Met
 195 200 205

Val Ala Ala Gln Val Met Gly Asn His Val Ala Val Thr Val Gly Gly
 210 215 220

Ser Asn Gly His Phe Glu Leu Asn Val Phe Lys Pro Met Met Ile Lys

225 230 235 240
 Asn Val Leu His Ser Ala Arg Leu Leu Gly Asp Ala Ser Val Ser Phe
 245 250 255
 Thr Glu Asn Cys Val Val Gly Ile Gln Ala Asn Thr Glu Arg Ile Asn
 260 265 270
 Lys Leu Met Asn Glu Ser Leu Met Leu Val Thr Ala Leu Asn Pro His
 275 280 285
 Ile Gly Tyr Asp Lys Ala Ala Lys Ile Ala Lys Thr Ala His Lys Asn
 290 295 300
 Gly Ser Thr Leu Lys Glu Thr Ala Ile Glu Leu Gly Tyr Leu Thr Ala
 305 310 315 320
 Glu Gln Phe Asp Glu Trp Val Lys Pro Lys Asp Met Leu Gly Pro Lys
 325 330 335

<210> 1540

<211> 126

<212> PRT

<213> Homo sapiens

<400> 1540

Gly Val Val Lys Ser Leu Leu Phe Thr Arg Cys Asn Val Leu Val Pro
 1 5 10 15
 Tyr Lys Gln Gly Trp Gly Gly Glu Gly Arg Ala Lys Thr Asn Ile Glu
 20 25 30
 Ile Leu Lys Gln Gln Gln Ser Glu Trp Ile Leu Phe Phe Val Ile Val
 35 40 45
 Gly Gly Leu Lys Asn Ser Pro His Val Ile Ile Val Asn Thr Leu Leu
 50 55 60
 Cys Gly His Cys Asn Ile Trp Gly Val Gly Gln Gly Gly Lys Val Thr
 65 70 75 80
 Ile Val His Met Ser Leu Ala Ser Val Gln Ser Ser Val Gln Asn Val
 85 90 95
 Met Leu Phe Cys Lys Lys Arg Phe Met Ile Phe Lys Ile Asn Leu Val
 100 105 110

Asn Leu Phe Leu Val Val Ile Phe Phe Leu Arg Gln Ser Phe
115 120 125

<210> 1541

<211> 50

<212> PRT

<213> Homo sapiens

<400> 1541

Asn Ser Ala Arg Val Cys Ile Leu Ser Arg Asp Arg Val Ser Pro Cys
1 5 10 15

Trp Leu Gly Trp Cys Leu Ser Leu Asp Leu Val Ile His Pro Pro Gln
20 25 30

Pro Pro Arg Val Leu Gly Leu Gln Val Arg Ala Thr Ala Pro Gly Trp
35 40 45

Phe Ser
50

<210> 1542

<211> 45

<212> PRT

<213> Homo sapiens

<400> 1542

Asp Phe Phe Leu Asn Ile Ser Glu Phe Glu Gly Asn Thr Asp Arg Phe
1 5 10 15

Leu Pro Ser Ser Leu Pro Ile Thr His Leu Ser Asp Asn Thr Leu Leu
20 25 30

Ile Glu Glu Val Ile Arg Ile Ile Phe Lys Phe Gln Ile
35 40 45

<210> 1543

<211> 239

<212> PRT

<213> Homo sapiens

<400> 1543

Ile Ala Leu Pro Pro Ser Phe Gln Pro Gln Ser Asp Gly Arg Gly Asp
1 5 10 15

Ala Ser Gly Arg Asn Ala Ala Met Ala Ala Gln Gly Glu Pro Gln Val
 20 25 30
 Gln Phe Lys Leu Val Leu Val Gly Asp Gly Gly Thr Gly Lys Thr Thr
 35 40 45
 Phe Val Lys Arg His Leu Thr Gly Glu Phe Glu Lys Lys Tyr Val Ala
 50 55 60
 Thr Leu Gly Val Glu Val His Pro Leu Val Phe His Thr Asn Arg Gly
 65 70 75 80
 Pro Ile Lys Phe Asn Val Trp Asp Thr Ala Gly Gln Glu Lys Phe Gly
 85 90 95
 Gly Leu Arg Asp Gly Tyr Tyr Ile Gln Ala Gln Cys Ala Ile Ile Met
 100 105 110
 Phe Asp Val Thr Ser Arg Val Thr Tyr Lys Asn Val Pro Asn Trp His
 115 120 125
 Arg Asp Leu Val Arg Val Cys Glu Asn Ile Pro Ile Val Leu Cys Gly
 130 135 140
 Asn Lys Val Asp Ile Lys Asp Arg Lys Val Lys Ala Lys Ser Ile Val
 145 150 155 160
 Phe His Arg Lys Lys Asn Leu Gln Tyr Tyr Asp Ile Ser Ala Lys Ser
 165 170 175
 Asn Tyr Asn Phe Glu Lys Pro Phe Leu Trp Leu Ala Arg Lys Leu Ile
 180 185 190
 Gly Asp Pro Asn Leu Glu Phe Val Ala Met Pro Ala Leu Ala Pro Pro
 195 200 205
 Glu Val Val Met Asp Pro Ala Leu Ala Ala Gln Tyr Glu His Asp Leu
 210 215 220
 Glu Val Ala Gln Thr Thr Ala Leu Pro Asp Glu Asp Asp Asp Leu
 225 230 235

<210> 1544

<211> 109

<212> PRT

<213> Homo sapiens

<400> 1544

Val Val Thr Gly Ser Gly Ser Trp His Gln Val Ala Ser Ile Ile Arg
 1 5 10 15
 Ser Leu Thr Glu Asp Asn Met Gln Asn Ser His Met Asp Glu Tyr Arg
 20 25 30
 Asn Ser Ser Asn Gly Ser Thr Gly Asn Ser Ser Glu Val Val Val Glu
 35 40 45
 His Pro Thr Asp Phe Ser Thr Glu Ile Met Asn Val Thr Glu Met Glu
 50 55 60
 Gln Ser Pro Asp Asp Ser Pro Asn Val Asn Ala Ser Thr Glu Glu Thr
 65 70 75 80
 Glu Met Ala Ser Ala Val Asp Leu Pro Val Thr Leu Thr Glu Thr Glu
 85 90 95
 Ala Ile Ser Leu Gln Asn Met Lys Asn Phe Gly Lys Leu
 100 105

<210> 1545

<211> 199

<212> PRT

<213> Homo sapiens

<400> 1545

Thr His Ala Ser Gly Pro Thr Arg Pro Gly Lys Met Ala Leu Ala Met
 1 5 10 15
 Leu Val Leu Val Val Ser Pro Trp Ser Ala Ala Arg Gly Val Leu Arg
 20 25 30
 Asn Tyr Trp Glu Arg Leu Leu Arg Lys Leu Pro Gln Ser Arg Pro Gly
 35 40 45
 Phe Pro Ser Pro Pro Trp Gly Pro Ala Leu Ala Val Gln Gly Pro Ala
 50 55 60
 Met Phe Thr Glu Pro Ala Asn Asp Thr Ser Gly Ser Lys Glu Asn Ser
 65 70 75 80
 Ser Leu Leu Asp Ser Ile Phe Trp Met Ala Ala Pro Lys Asn Arg Arg
 85 90 95
 Thr Ile Glu Val Asn Arg Cys Arg Arg Arg Asn Pro Gln Lys Leu Ile
 100 105 110
 Lys Val Lys Asn Asn Ile Asp Val Cys Pro Glu Cys Gly His Leu Lys

115 120 125
 Gln Lys His Val Leu Cys Ala Tyr Cys Tyr Glu Lys Val Cys Lys Glu
 130 135 140
 Thr Ala Glu Ile Arg Arg Gln Ile Gly Lys Gln Glu Gly Gly Pro Phe
 145 150 155 160
 Lys Ala Pro Thr Ile Glu Thr Val Val Leu Tyr Thr Gly Glu Thr Pro
 165 170 175
 Ser Glu Gln Asp Gln Gly Lys Arg Ile Ile Glu Arg Asp Arg Lys Arg
 180 185 190
 Pro Ser Trp Phe Thr Gln Asn
 195

<210> 1546

<211> 163

<212> PRT

<213> Homo sapiens

<400> 1546

Pro Thr Arg Pro Pro Thr Arg Pro Arg Arg Trp Arg Arg Arg Thr Ala
 1 5 10 15
 Pro Glu Arg Ala Gly Ala Met Ser Ala Ala Arg Pro Gln Phe Ser Ile
 20 25 30
 Asp Asp Ala Phe Glu Leu Ser Leu Glu Asp Gly Gly Pro Gly Pro Glu
 35 40 45
 Ser Ser Gly Val Ala Arg Phe Gly Pro Leu His Phe Glu Arg Arg Ala
 50 55 60
 Arg Phe Glu Val Ala Asp Glu Asp Lys Gln Ser Arg Leu Arg Tyr Gln
 65 70 75 80
 Asn Leu Glu Asn Asp Glu Asp Gly Ala Gln Ala Ser Pro Glu Pro Asp
 85 90 95
 Gly Gly Val Gly Thr Arg Leu Gly Pro Gly Ile Pro Ala Glu Leu Pro
 100 105 110
 Pro Gly Leu Pro Val Leu Leu Pro Ala Leu Leu Arg Glu Val Ile Ala
 115 120 125
 Ala Gln Arg Gly Pro Leu Ala Pro Met Gly Ala Pro Leu Leu Pro Cys
 130 135 140

Ser Val Pro Leu Ile Ser Arg Glu Glu Ala Leu Gln Asp Pro Arg Asn
 145 150 155 160

Pro Ser Pro

<210> 1547

<211> 176

<212> PRT

<213> Homo sapiens

<400> 1547

Ser Thr His Ala Ser Ala His Ala Ser Gly Pro Val Pro Ser Ala Ala
 1 5 10 15

Ser Ser Ala Gly Gly Ser Gly Gly Leu Ser Phe Arg Ala Ala Ser Ser
 20 25 30

Leu Pro Val Ser Pro Ser Leu Ala Val Ser Met Lys Ala Phe Ser Pro
 35 40 45

Val Arg Ser Val Arg Lys Asn Ser Leu Ser Asp His Ser Leu Gly Ile
 50 55 60

Ser Arg Ser Lys Thr Pro Val Asp Asp Pro Met Ser Leu Leu Tyr Asn
 65 70 75 80

Met Asn Asp Cys Tyr Ser Lys Leu Lys Glu Leu Val Pro Ser Ile Pro
 85 90 95

Gln Asn Lys Lys Val Ser Lys Met Glu Ile Leu Gln His Val Ile Asp
 100 105 110

Tyr Ile Leu Asp Leu Gln Ile Ala Leu Asp Ser His Pro Thr Ile Val
 115 120 125

Ser Leu His His Gln Arg Pro Gly Gln Asn Gln Ala Ser Arg Thr Pro
 130 135 140

Leu Thr Thr Leu Asn Thr Asp Ile Ser Ile Leu Ser Leu Gln Ala Ser
 145 150 155 160

Glu Phe Pro Ser Glu Leu Met Ser Asn Asp Ser Lys Ala Leu Cys Gly
 165 170 175

<210> 1548
 <211> 69
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1548
 Lys Lys Ser Leu Arg Cys Glu Tyr Arg Ile Asp Ile Glu Arg Leu Tyr
 1 5 10 15
 Met Ser Lys Thr His Leu Ser Ser Ser His Arg Pro Leu Gln Ser Gly
 20 25 30
 His Val Gly Gln Xaa Gly Thr Gly Ala Gly Asp Ala Pro Pro Gly Gln
 35 40 45
 Asn Ala Pro Phe Val Ala Leu Pro Asp Thr Xaa Tyr Leu Leu Xaa Lys
 50 55 60
 Arg Glu Thr Gly Ser
 65

<210> 1549
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1549
 Ile Leu Leu Tyr Lys His Phe His Ile Leu Pro Leu His Leu Thr Ile
 1 5 10 15
 Gln His Lys Gln Leu Leu Met Ala Leu Arg Ile Val Cys Thr Cys Asn
 20 25 30

Phe Glu Trp Leu Tyr Ala Val Ser Ser
35 40

<210> 1550

<211> 61

<212> PRT

<213> Homo sapiens

<400> 1550

Phe Phe Ala Pro Leu Lys Pro Val Arg Ile Thr Met Glu Tyr Ser Ser
1 5 10 15

Ser Gly Lys Ala Thr Gly Glu Ala Asp Val His Phe Glu Thr His Glu
20 25 30

Asp Ala Val Ala Ala Met Leu Lys Asp Arg Ser His Val His His Arg
35 40 45

Tyr Ile Glu Leu Phe Leu Asn Ser Cys Pro Lys Gly Lys
50 55 60

<210> 1551

<211> 114

<212> PRT

<213> Homo sapiens

<400> 1551

Gly Ser Leu Ala Ser Phe Leu Ala Cys Ser Ser Glu Phe Phe Gln Pro
1 5 10 15

Pro Pro Thr Ala Gln Phe Gln Ser His Phe Ser Thr Phe Arg Tyr Leu
20 25 30

Leu Gln Gln His Leu Lys Tyr Leu Glu Asn Ser Phe Met Pro Ala Ser
35 40 45

Leu Pro Asp Asp Leu Asn Met Val Leu Asp Leu Glu Phe Thr Phe Leu
50 55 60

Gln Gly His Cys Leu Phe Gln Arg Gly Glu Phe Thr Cys Ala Arg Val
65 70 75 80

Phe Thr Leu Gly Val Leu Pro Glu Leu Pro Gln Asp Glu Ser Gly Glu
85 90 95

Pro Thr Thr Ala Glu Lys Phe Ser Gln Cys Arg Asn Ile Glu Glu Phe

100

105

110

Ser Lys

<210> 1552

<211> 450

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (200)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (414)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (420)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (429)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (442)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1552

Thr	Gly	Cys	Gly	Lys	Thr	Thr	Gln	Val	Thr	Gln	Phe	Ile	Leu	Asp	Asn
1				5				10					15		

Tyr	Ile	Glu	Arg	Gly	Lys	Gly	Ser	Ala	Cys	Arg	Ile	Val	Cys	Thr	Gln
			20				25					30			

Pro	Arg	Arg	Ile	Ser	Ala	Ile	Ser	Val	Ala	Glu	Arg	Val	Ala	Ala	Glu
			35				40					45			

Arg Ala Glu Ser Cys Gly Ser Gly Asn Ser Thr Gly Tyr Gln Ile Arg
 50 55 60
 Leu Gln Ser Arg Leu Pro Arg Lys Gln Gly Ser Ile Leu Tyr Cys Thr
 65 70 75 80
 Thr Gly Ile Ile Leu Gln Trp Leu Gln Ser Asp Pro Tyr Leu Ser Ser
 85 90 95
 Val Ser His Ile Val Leu Asp Glu Ile His Glu Arg Asn Leu Gln Ser
 100 105 110
 Asp Val Leu Met Thr Val Val Lys Asp Leu Leu Asn Phe Arg Ser Asp
 115 120 125
 Leu Lys Val Ile Leu Met Ser Ala Thr Leu Asn Ala Glu Lys Phe Ser
 130 135 140
 Glu Tyr Phe Gly Asn Cys Pro Met Ile His Ile Pro Gly Phe Thr Phe
 145 150 155 160
 Pro Val Val Glu Tyr Leu Leu Glu Asp Val Ile Glu Lys Ile Arg Tyr
 165 170 175
 Val Pro Glu Gln Lys Glu His Arg Xaa Gln Phe Lys Arg Gly Phe Met
 180 185 190
 Gln Gly His Val Asn Arg Gln Xaa Lys Glu Glu Lys Glu Ala Ile Tyr
 195 200 205
 Lys Glu Arg Trp Pro Asp Tyr Val Arg Glu Leu Arg Arg Arg Tyr Ser
 210 215 220
 Ala Ser Thr Val Asp Val Ile Glu Met Met Glu Asp Asp Lys Val Asp
 225 230 235 240
 Leu Asn Leu Ile Val Ala Leu Ile Arg Tyr Ile Val Leu Glu Glu Glu
 245 250 255
 Asp Gly Ala Ile Leu Val Phe Leu Pro Gly Trp Asp Asn Ile Ser Thr
 260 265 270
 Leu His Asp Leu Leu Met Ser Gln Val Met Phe Lys Ser Asp Lys Phe
 275 280 285
 Leu Ile Ile Pro Leu His Ser Leu Met Pro Thr Val Asn Gln Thr Gln
 290 295 300
 Val Phe Lys Arg Thr Pro Pro Gly Val Arg Lys Ile Val Ile Ala Thr
 305 310 315 320

Asn Ile Ala Glu Thr Ser Ile Thr Ile Asp Asp Val Val Tyr Val Ile
325 330 335

Asp Gly Gly Lys Ile Lys Glu Thr His Phe Asp Thr Gln Asn Asn Ile
340 345 350

Ser Thr Met Ser Ala Glu Trp Val Ser Lys Ala Asn Ala Lys Gln Arg
355 360 365

Lys Gly Arg Ala Gly Arg Val Gln Pro Gly His Cys Tyr His Leu Tyr
370 375 380

Asn Gly Leu Arg Ala Ser Leu Leu Asp Asp Tyr Gln Leu Pro Glu Ile
385 390 395 400

Leu Arg Thr Pro Leu Glu Glu Leu Cys Leu Gln Ile Lys Xaa Phe Lys
405 410 415

Ala Arg Trp Xaa Cys Leu Phe Leu Ser Arg Leu Met Xaa Pro Pro Ser
420 425 430

Asn Glu Ala Val Leu Leu Ser Ile Arg Xaa Leu Met Glu Leu Glu Arg
435 440 445

Phe Gly
450

<210> 1553

<211> 446

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1553

Glu Leu Leu Ala Val Val Gly Pro Val Gly Ala Gly Lys Ser Ser Leu
 1 5 10 15
 Leu Ser Ala Val Leu Gly Glu Leu Ala Pro Ser His Gly Leu Val Ser
 20 25 30
 Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln Pro Trp Val Phe Ser
 35 40 45
 Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys Lys Xaa Glu Lys Xaa
 50 55 60
 Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala Leu Lys Lys Asp Leu Gln
 65 70 75 80
 Leu Leu Glu Asp Gly Asp Leu Thr Val Ile Gly Asp Arg Gly Thr Thr
 85 90 95
 Leu Ser Xaa Gly Gln Lys Ala Arg Val Asn Leu Ala Arg Ala Val Tyr
 100 105 110
 Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp Pro Leu Ser Ala Val Asp
 115 120 125
 Ala Glu Val Ser Arg His Leu Phe Glu Leu Cys Ile Cys Gln Ile Leu
 130 135 140
 His Glu Lys Ile Thr Ile Leu Val Thr His Gln Leu Gln Tyr Leu Lys
 145 150 155 160
 Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp Gly Lys Met Val Gln Lys
 165 170 175
 Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly Ile Asp Phe Gly Ser Leu
 180 185 190
 Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln Pro Pro Val Pro Gly Thr
 195 200 205
 Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu Ser Ser Val Trp Ser Gln
 210 215 220
 Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly Ala Leu Glu Ser Gln Asp
 225 230 235 240
 Thr Glu Asn Val Pro Val Thr Leu Ser Glu Glu Asn Arg Ser Glu Gly
 245 250 255
 Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr Phe Arg Ala Gly Ala His
 260 265 270

Trp Ile Val Phe Ile Phe Leu Ile Leu Leu Asn Thr Ala Ala Gln Val
 275 280 285
 Ala Tyr Val Leu Gln Asp Trp Trp Leu Ser Tyr Trp Ala Asn Lys Gln
 290 295 300
 Ser Met Leu Asn Val Thr Val Asn Gly Gly Gly Asn Val Thr Glu Lys
 305 310 315 320
 Leu Asp Leu Asn Trp Tyr Leu Gly Ile Tyr Ser Gly Leu Thr Val Ala
 325 330 335
 Thr Val Leu Phe Gly Ile Ala Arg Ser Leu Leu Val Phe Tyr Val Leu
 340 345 350
 Val Asn Ser Ser Gln Thr Leu His Asn Lys Met Phe Glu Ser Ile Leu
 355 360 365
 Lys Ala Pro Val Leu Phe Phe Asp Arg Asn Pro Ile Gly Arg Ile Leu
 370 375 380
 Asn Arg Phe Ser Lys Asp Ile Gly His Leu Asp Asp Leu Leu Pro Leu
 385 390 395 400
 Thr Phe Leu Asp Phe Ile Gln Val Thr Leu Arg Val Met Ser Gly Ser
 405 410 415
 Gln Met Glu Asn Gly Ser Ser Tyr Phe Phe Lys Pro Phe Ser Trp Gly
 420 425 430
 Leu Gly Val Gly Leu Ser Ala Trp Leu Cys Val Met Leu Thr
 435 440 445

<210> 1554

<211> 446

<212> PRT

<213> Homo sapiens

<400> 1554

Arg Lys Cys Glu Leu Ala His Cys Ser Leu Gly Val Phe Gly Val Arg
 1 5 10 15
 Met Ala Leu Glu Gly Met Ser Lys Arg Lys Arg Lys Arg Ser Val Gln
 20 25 30
 Glu Gly Glu Asn Pro Asp Asp Gly Val Arg Gly Ser Pro Pro Glu Asp
 35 40 45
 Tyr Arg Leu Gly Gln Val Ala Ser Ser Leu Phe Arg Gly Glu His His

50	55	60
Ser Arg Gly Gly Thr Gly Arg Leu Ala Ser Leu Phe Ser Ser Leu Glu		
65	70	75 80
Pro Gln Ile Gln Pro Val Tyr Val Pro Val Pro Lys Gln Thr Ile Lys		
	85	90 95
Lys Thr Lys Arg Asn Glu Glu Glu Glu Ser Thr Ser Gln Ile Glu Arg		
	100	105 110
Pro Leu Ser Gln Glu Pro Ala Lys Lys Val Lys Ala Lys Lys Lys His		
	115	120 125
Thr Asn Ala Glu Lys Lys Leu Ala Asp Arg Glu Ser Ala Leu Ala Ser		
	130	135 140
Ala Asp Leu Glu Glu Glu Ile His Gln Lys Gln Gly Gln Lys Arg Lys		
	145	150 155 160
Asn Ser Gln Pro Gly Val Lys Val Ala Asp Arg Lys Ile Leu Asp Asp		
	165	170 175
Thr Glu Asp Thr Val Val Ser Gln Arg Lys Lys Ile Gln Ile Asn Gln		
	180	185 190
Glu Glu Glu Arg Leu Lys Asn Glu Arg Thr Val Phe Val Gly Asn Leu		
	195	200 205
Pro Val Thr Cys Asn Lys Lys Lys Leu Lys Ser Phe Phe Lys Glu Tyr		
	210	215 220
Gly Gln Ile Glu Ser Val Arg Phe Arg Ser Leu Ile Pro Ala Glu Gly		
	225	230 235 240
Thr Leu Ser Lys Lys Leu Ala Ala Ile Lys Arg Lys Ile His Pro Asp		
	245	250 255
Gln Lys Asn Ile Asn Ala Tyr Val Val Phe Lys Glu Glu Ser Ala Ala		
	260	265 270
Thr Gln Ala Leu Lys Arg Asn Gly Ala Gln Ile Ala Asp Gly Phe Arg		
	275	280 285
Ile Arg Val Asp Leu Ala Ser Glu Thr Ser Ser Arg Asp Lys Arg Ser		
	290	295 300
Val Phe Val Gly Asn Leu Pro Tyr Lys Val Glu Glu Ser Ala Ile Glu		
	305	310 315 320
Lys His Phe Leu Asp Cys Gly Ser Ile Met Ala Val Arg Ile Val Arg		

	325		330		335
Asp Lys Met Thr Gly Ile Gly Lys Gly Phe Gly Tyr Val Leu Phe Glu					
	340		345		350
Asn Thr Asp Ser Val His Leu Ala Leu Lys Leu Asn Asn Ser Glu Leu					
	355		360		365
Met Gly Arg Lys Leu Arg Val Met Arg Ser Val Asn Lys Glu Lys Phe					
	370		375		380
Lys Gln Gln Asn Ser Asn Pro Arg Leu Lys Asn Val Ser Lys Pro Lys					
	385		390		395
					400
Gln Gly Leu Asn Phe Thr Ser Lys Thr Ala Glu Gly His Pro Lys Ser					
	405		410		415
Leu Phe Ile Gly Glu Lys Ala Val Leu Leu Lys Thr Lys Lys Lys Gly					
	420		425		430
Gln Lys Lys Ser Gly Arg Pro Lys Lys Gln Arg Lys Gln Lys					
	435		440		445

<210> 1555

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1555

Ala Thr Xaa Val Gln His Gln Arg Ile His Thr Gly Glu Arg Pro Tyr
1 5 10 15

Glu Cys Xaa Glu Cys Gly Lys Thr Phe Ser Arg Lys Asp Asn Leu Thr
20 25 30

Gln His Lys Arg Ile His Thr Gly Glu Met Pro Tyr Lys Cys Asn Glu
 35 40 45
 Cys Gly Xaa Tyr Phe Ser His His Ser Asn Leu Ile Val His Gln Arg
 50 55 60
 Val His Asn Gly Ala Arg Pro Tyr Lys Cys Ser Asp Cys Gly Lys Val
 65 70 75 80
 Phe Arg His Lys Ser Thr Leu Val Gln His Glu Ser Ile His Thr Gly
 85 90 95
 Glu Asn Pro Tyr Val Ala Val Leu Trp Glu Ile Leu Trp Pro Gln Ile
 100 105 110
 His Pro His
 115

<210> 1556
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1556
 Cys Gly Lys Thr Ala Ile Arg Lys Arg Lys Tyr Arg Ser Leu Asn Asn
 1 5 10 15
 Leu Trp Val Arg Lys Ala Ser Leu Asn Asn Gln Lys Leu Ala Val Leu
 20 25 30
 Ala Leu Phe Ser Ser Leu Phe Met Lys Met Lys Ser Glu Ile Thr Lys
 35 40 45
 Cys Lys Pro Gly Asn Ile Ile Leu Val Leu Leu Ser Trp Ile His Val
 50 55 60
 Lys Lys Arg Leu His Ser Leu Leu Met Leu Pro Thr Ser Cys Gly Phe
 65 70 75 80
 Val

<210> 1557
 <211> 398
 <212> PRT
 <213> Homo sapiens

<400> 1557

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Phe Arg Glu Met Val Ser Ser Ser Asn Leu Pro Gln Gly Trp Leu Glu
 1             5             10             15

Val Gln Gly Ile Pro Glu Gly Trp Asp Gly Val Ala Gly Trp Tyr Leu
      20             25             30

Pro Gly Ile Asn Pro Gly Arg Thr Ala Arg Arg Phe Ala Tyr Leu Phe
      35             40             45

Val Asn Ile Asn Val Thr Ser Glu Pro His Glu Val Leu Ala Leu Trp
      50             55             60

Phe Leu Trp Tyr Val Lys Gln Cys Gly Gly Thr Thr Arg Ile Phe Ser
 65             70             75             80

Val Thr Asn Gly Gly Gln Glu Arg Lys Phe Val Gly Gly Ser Gly Gln
      85             90             95

Val Ser Glu Arg Ile Met Asp Leu Leu Gly Asp Gln Val Lys Leu Asn
      100            105            110

His Pro Val Thr His Val Asp Gln Ser Ser Asp Asn Ile Ile Ile Glu
      115            120            125

Thr Leu Asn His Glu His Tyr Glu Cys Lys Tyr Val Ile Asn Ala Ile
      130            135            140

Pro Pro Thr Leu Thr Ala Lys Ile His Phe Arg Pro Glu Leu Pro Ala
      145            150            155            160

Glu Arg Asn Gln Leu Ile Gln Arg Leu Pro Met Gly Ala Val Ile Lys
      165            170            175

Cys Met Met Tyr Tyr Lys Glu Ala Phe Trp Lys Lys Lys Asp Tyr Cys
      180            185            190

Gly Cys Met Ile Ile Glu Asp Glu Asp Ala Pro Ile Ser Ile Thr Leu
      195            200            205

Asp Asp Thr Lys Pro Asp Gly Ser Leu Pro Ala Ile Met Gly Phe Ile
      210            215            220

Leu Ala Arg Lys Ala Asp Arg Leu Ala Lys Leu His Lys Glu Ile Arg
      225            230            235            240

Lys Lys Lys Ile Cys Glu Leu Tyr Ala Lys Val Leu Gly Ser Gln Glu
      245            250            255

Ala Leu His Pro Val His Tyr Glu Glu Lys Asn Trp Cys Glu Glu Gln

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260	265	270
Tyr Ser Gly Gly Cys Tyr Thr Ala Tyr Phe Pro Pro Gly Ile Met Thr		
275	280	285
Gln Tyr Gly Arg Val Ile Arg Gln Pro Val Gly Arg Ile Phe Phe Ala		
290	295	300
Gly Thr Glu Thr Ala Thr Lys Trp Ser Gly Tyr Met Glu Gly Ala Val		
305	310	315
Glu Ala Gly Glu Arg Ala Ala Arg Glu Val Leu Asn Gly Leu Gly Lys		
325	330	335
Val Thr Glu Lys Asp Ile Trp Val Gln Glu Pro Glu Ser Lys Asp Val		
340	345	350
Pro Ala Val Glu Ile Thr His Thr Phe Trp Glu Arg Asn Leu Pro Ser		
355	360	365
Val Ser Gly Leu Leu Lys Ile Ile Gly Phe Ser Thr Ser Val Thr Ala		
370	375	380
Leu Gly Phe Val Leu Tyr Lys Tyr Lys Leu Leu Pro Arg Ser		
385	390	395

<210> 1558

<211> 401

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1558

Ser	Leu	Ala	Ala	Pro	Gly	Ile	Pro	Glu	His	Arg	Gln	Arg	Gly	Thr	Glu
1				5				10					15		

Lys	Glu	Ser	Phe	Phe	Leu	Gly	Ser	Gln	Ser	Arg	Lys	Gly	Gly	Ala	Ala
			20					25					30		

Leu	Ala	Pro	Ser	Ala	Gly	Pro	Ala	Pro	Arg	Met	Arg	Ala	Asp	Ala	Gly
		35					40					45			

Gly	Arg	Gly	Cys	Gly	Ser	Ala	Asn	Gly	Xaa	Pro	Gly	Ala	Pro	His	Val
50						55					60				

Arg	Ala	Ala	Gly	Pro	Ala	Ala	Ala	Ala	Val	Pro	Gly	Ala	Arg	Val	Val	65	70	75	80
Cys	Gly	Gly	Ser	Arg	Pro	Arg	Gln	Gln	Val	Asp	Ser	Ser	Lys	Glu	Ser	85	90		95
Ala	Glu	Ala	Ala	Cys	Asp	Ile	Leu	Ser	Gln	Leu	Val	Asn	Cys	Ser	Leu	100	105		110
Lys	Thr	Leu	Gly	Leu	Ile	Ser	Thr	Ala	Arg	Pro	Ser	Phe	Met	Asp	Leu	115	120		125
Pro	Lys	Ser	His	Phe	Ile	Ser	Ala	Leu	Thr	Val	Val	Phe	Val	Asn	Ser	130	135	140	
Lys	Ser	Leu	Ser	Ser	Leu	Lys	Ile	Asp	Asp	Thr	Pro	Val	Asp	Asp	Pro	145	150	155	160
Ser	Leu	Lys	Val	Leu	Val	Ala	Asn	Asn	Ser	Asp	Thr	Leu	Lys	Leu	Leu	165	170		175
Lys	Met	Ser	Ser	Cys	Pro	His	Val	Ser	Pro	Ala	Gly	Ile	Leu	Cys	Val	180	185		190
Ala	Asp	Gln	Cys	His	Gly	Leu	Arg	Glu	Leu	Ala	Leu	Asn	Tyr	His	Leu	195	200		205
Leu	Ser	Asp	Glu	Leu	Leu	Leu	Ala	Leu	Ser	Ser	Glu	Lys	His	Val	Arg	210	215	220	
Leu	Glu	His	Leu	Arg	Ile	Asp	Val	Val	Ser	Glu	Asn	Pro	Gly	Gln	Thr	225	230	235	240
His	Phe	His	Thr	Ile	Gln	Lys	Ser	Ser	Trp	Asp	Ala	Phe	Ile	Arg	His	245	250		255
Ser	Pro	Lys	Val	Asn	Leu	Val	Met	Tyr	Phe	Phe	Leu	Tyr	Glu	Glu	Glu	260	265		270
Phe	Asp	Pro	Phe	Phe	Arg	Tyr	Glu	Ile	Pro	Ala	Thr	His	Leu	Tyr	Phe	275	280		285
Gly	Arg	Ser	Val	Ser	Lys	Asp	Val	Leu	Gly	Arg	Val	Gly	Met	Thr	Cys	290	295	300	
Pro	Arg	Leu	Val	Glu	Leu	Val	Val	Cys	Ala	Asn	Gly	Leu	Arg	Pro	Leu	305	310	315	320
Asp	Glu	Glu	Leu	Ile	Arg	Ile	Ala	Glu	Arg	Cys	Lys	Asn	Leu	Ser	Ala	325	330		335

Ile Gly Leu Gly Glu Cys Glu Val Ser Cys Ser Ala Phe Val Glu Phe
340 345 350

Val Lys Met Cys Gly Gly Arg Leu Ser Gln Leu Ser Ile Met Glu Glu
355 360 365

Val Leu Ile Pro Asp Gln Lys Tyr Ser Leu Glu Gln Ile His Trp Glu
370 375 380

Val Ser Lys His Leu Gly Arg Val Trp Phe Pro Asp Met Met Pro Thr
385 390 395 400

Trp

<210> 1559

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1559

Ala Gly Ala Gly Gly Arg Val Gly Asp Arg Ala Gly Val Arg Glu Arg
1 5 10 15

Gln Gln Ser Gly His Arg His Ser Glu Gln Pro Arg Arg Arg Leu Cys
20 25 30

Val Pro Val Asp Cys Leu Ala Ala Pro Ser Pro Thr Pro Arg Phe Leu
35 40 45

Val Lys Arg Leu Arg Ala Ala Val Trp Gly Gly Gly Val Trp Ser Arg
50 55 60

Val Leu Cys Pro Gln Trp Leu Leu Ser Gly Gly Arg Leu Phe Ala Glu
65 70 75 80

Val Arg Arg Asp Ser Leu Gly Val Glu His Ile Thr Gly Phe Gly Cys
85 90 95

Leu Val Cys Glu His His Arg Val Cys Gly Cys Thr
100 105

<210> 1560

<211> 68

<212> PRT

<213> Homo sapiens

<400> 1560

Glu Leu Ser Pro Leu Ser Phe Arg Ser Thr Arg Gly Phe His Thr Tyr
1 5 10 15
Phe Ile Glu His Pro Phe Ile Phe Ile Ser Val Tyr Arg Thr Lys Lys
20 25 30
Asn Ser Ser Val Lys Asn Leu Cys Cys Gly Leu Ser Ile Phe Ala Ala
35 40 45
Phe Gly Leu Arg Trp Arg Ile Lys Ala Ser Leu Pro Leu Ser Ser Val
50 55 60
Phe Arg Lys Leu
65

<210> 1561

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1561

Leu Met Met Thr Ile Tyr Ala Leu Ser Asn Glu Phe Ala Phe Lys Ile
1 5 10 15
Asn Glu Glu Gln Leu Ser Phe Phe Pro Leu Leu Ser Val Gln Leu Trp
20 25 30
His Ala Gln Arg Phe Leu Leu Asp Ser Ser Trp Ser Gly Val Ile Pro
35 40 45
Phe Phe Phe Ser Cys Ser Cys Leu Pro Phe Leu Tyr Pro Pro Lys Trp
50 55 60
Arg Gln Ile His Asp Leu Lys Asp Thr Gln Tyr Leu Leu Asn Ser Ser
65 70 75 80

<210> 1562

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1562

Arg	Gly	Leu	Xaa	Ser	Arg	Gly	Ala	Gly	Gln	Val	Pro	Gly	Cys	Leu	Gly
1				5					10					15	

Trp	His	Arg	Ser	Val	Val	Pro	Gly	Gly	Ala	Val	Ala	Ala	Leu	Pro	Pro
			20					25					30		

Ser	Arg	Arg	Gln	Arg	Val	Arg	Gly	Pro	Val	Arg	Pro	Glu	Pro	Gly	Ala
		35					40					45			

Thr	Pro	Arg	Ala	Val	Leu	Gly	Glu	Thr	Arg	Val	Pro	Val	Leu	Arg	Leu
	50					55					60				

Leu	Leu	Gly	Ser	Ala	Leu	Val	Gly	Arg	Leu	Leu	Asp	Ser	Leu	Lys	Arg
65					70					75				80	

Asp	Tyr	Ala	Gly	Lys	Pro	Gln	Pro	Pro	Ile	Lys	Ser	Glu	Arg	Arg	Asn
				85					90					95	

Pro	Pro	Ser	Tyr	Ala	Met	Ala	Gly	Lys	Lys	Val	Leu	Ile	Val	Tyr	Ala
		100						105					110		

His	Gln	Glu	Pro	Lys	Ser	Phe	Asn	Gly	Ser	Leu	Lys	Asn	Val	Ala	Val
		115					120					125			

Asp	Glu	Leu	Ser	Arg	Gln	Gly	Cys	Thr	Val	Thr	Val	Ser	Asp	Leu	Tyr
	130					135					140				

Ala	Met	Asn	Phe	Glu	Pro	Arg	Ala	Thr	Asp	Lys	Asp	Ile	Thr	Gly	Thr
145					150					155				160	

Leu	Ser	Asn	Pro	Glu	Val	Phe	Asn	Tyr	Gly	Val	Glu	Thr	His	Glu	Ala
			165						170					175	

Tyr	Lys	Gln	Arg	Ser	Leu	Ala	Ser	Asp	Ile	Thr	Asp	Glu	Gln	Lys	Lys
			180					185					190		

Xaa	Ser	Gly	Arg	Leu	Thr
		195			

<210> 1563

<211> 488

<212> PRT

<213> Homo sapiens

<400> 1563

Gly Arg Glu Ala Ser Lys Met Ala Gln Thr Gln Gly Thr Arg Arg Lys
 1 5 10 15
 Val Cys Tyr Tyr Tyr Asp Gly Asp Val Gly Asn Tyr Tyr Tyr Gly Gln
 20 25 30
 Gly His Pro Met Lys Pro His Arg Ile Arg Met Thr His Asn Leu Leu
 35 40 45
 Leu Asn Tyr Gly Leu Tyr Arg Lys Met Glu Ile Tyr Arg Pro His Lys
 50 55 60
 Ala Asn Ala Glu Glu Met Thr Lys Tyr His Ser Asp Asp Tyr Ile Lys
 65 70 75 80
 Phe Leu Arg Ser Ile Arg Pro Asp Asn Met Ser Glu Tyr Ser Lys Gln
 85 90 95
 Met Gln Arg Phe Asn Val Gly Glu Asp Cys Pro Val Phe Asp Gly Leu
 100 105 110
 Phe Glu Phe Cys Gln Leu Ser Thr Gly Gly Ser Val Ala Ser Ala Val
 115 120 125
 Lys Leu Asn Lys Gln Gln Thr Asp Ile Ala Val Asn Trp Ala Gly Gly
 130 135 140
 Leu His His Ala Lys Lys Ser Glu Ala Ser Gly Phe Cys Tyr Val Asn
 145 150 155 160
 Asp Ile Val Leu Ala Ile Leu Glu Leu Lys Tyr His Gln Arg Val
 165 170 175
 Leu Tyr Ile Asp Ile Asp Ile His His Gly Asp Gly Val Glu Glu Ala
 180 185 190
 Phe Tyr Thr Thr Asp Arg Val Met Thr Val Ser Phe His Lys Tyr Gly
 195 200 205
 Glu Tyr Phe Pro Gly Thr Gly Asp Leu Arg Asp Ile Gly Ala Gly Lys
 210 215 220
 Gly Lys Tyr Tyr Ala Val Asn Tyr Pro Leu Arg Asp Gly Ile Asp Asp
 225 230 235 240
 Glu Ser Tyr Glu Ala Ile Phe Lys Pro Val Met Ser Lys Val Met Glu

245	250	255
Met Phe Gln Pro Ser Ala Val Val Leu Gln Cys Gly Ser Asp Ser Leu		
260	265	270
Ser Gly Asp Arg Leu Gly Cys Phe Asn Leu Thr Ile Lys Gly His Ala		
275	280	285
Lys Cys Val Glu Phe Val Lys Ser Phe Asn Leu Pro Met Leu Met Leu		
290	295	300
Gly Gly Gly Gly Tyr Thr Ile Arg Asn Val Ala Arg Cys Trp Thr Tyr		
305	310	315
Glu Thr Ala Val Ala Leu Asp Thr Glu Ile Pro Asn Glu Leu Pro Tyr		
325	330	335
Asn Asp Tyr Phe Glu Tyr Phe Gly Pro Asp Phe Lys Leu His Ile Ser		
340	345	350
Pro Ser Asn Met Thr Asn Gln Asn Thr Asn Glu Tyr Leu Glu Lys Ile		
355	360	365
Lys Gln Arg Leu Phe Glu Asn Leu Arg Met Leu Pro His Ala Pro Gly		
370	375	380
Val Gln Met Gln Ala Ile Pro Glu Asp Ala Ile Pro Glu Glu Ser Gly		
385	390	395
Asp Glu Asp Glu Asp Asp Pro Asp Lys Arg Ile Ser Ile Cys Ser Ser		
405	410	415
Asp Lys Arg Ile Ala Cys Glu Glu Glu Phe Ser Asp Ser Glu Glu Glu		
420	425	430
Gly Glu Gly Gly Arg Lys Asn Ser Ser Asn Phe Lys Lys Ala Lys Arg		
435	440	445
Val Lys Thr Glu Asp Glu Lys Glu Lys Asp Pro Glu Glu Lys Lys Glu		
450	455	460
Val Thr Glu Glu Glu Lys Thr Lys Glu Glu Lys Pro Glu Ala Lys Gly		
465	470	475
Val Lys Glu Glu Val Lys Leu Ala		
485		

<210> 1564

<211> 197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1564

Ala Arg Ser Ser Leu Trp Arg Arg Gln Pro Gly Trp Gln Leu Thr Gly
1 5 10 15

Gln Pro Gly Ser Ile Leu Leu Arg Val Phe Ser Lys Ser Arg Ala Gly
20 25 30

Leu Glu Ala Arg Lys Leu Lys Ala Tyr Arg Thr Met Glu Tyr Met Ala
35 40 45

Glu Ser Thr Asp Arg Ser Pro Gly His Ile Leu Cys Cys Glu Cys Gly
50 55 60

Val Pro Ile Ser Pro Asn Pro Ala Asn Ile Cys Val Ala Cys Leu Arg
65 70 75 80

Ser Lys Val Asp Ile Ser Gln Gly Ile Pro Lys Gln Val Ser Ile Ser
85 90 95

Phe Cys Lys Gln Cys Gln Arg Tyr Phe Gln Pro Pro Gly Thr Trp Ile
100 105 110

Gln Cys Ala Leu Glu Ser Arg Glu Leu Leu Ala Leu Cys Leu Lys Lys

Ser Phe His Leu Asn Val Ser Gly Glu Ala Ser Leu Phe Glu Val Asn
 65 70 75 80
 Ile Arg Tyr Ile Gly Gly Leu Leu Ser Ala Phe Tyr Leu Thr Gly Glu
 85 90 95
 Glu Val Phe Arg Ile Lys Ala Ile Arg Leu Gly Glu Lys Leu Leu Pro
 100 105 110
 Ala Phe Asn Thr Pro Thr Gly Ile Pro Lys Gly Val Val Ser Phe Lys
 115 120 125
 Ser Gly Asn Trp Gly Trp Ala Thr Ala Gly Ser Ser Ser Ile Leu Ala
 130 135 140
 Glu Phe Gly Ser Leu His Leu Glu Phe Leu His Leu Thr Glu Leu Ser
 145 150 155 160
 Gly Asn Gln Val Phe Ala Glu Lys Val Arg Asn Ile Arg Lys Val Leu
 165 170 175
 Arg Lys Xaa Glu Lys Pro Phe Gly Leu Tyr Ser Asn Xaa Xaa Met Val
 180 185 190
 Leu Gln Thr Asp Pro
 195

<210> 1566

<211> 240

<212> PRT

<213> Homo sapiens

<400> 1566

Ala Asp Pro Glu Gly Gln Ala Gly Arg Ala Gly Arg Ala Leu Arg Arg
 1 5 10 15
 His Gly His Leu His Glu Gly Ser Asp Arg Ala Gly Arg Arg Ala Val
 20 25 30
 Gln Arg Gly Ala Gln Pro Ala Leu Arg Gly Leu Gln Glu Arg Gly Arg
 35 40 45
 Gly Pro Gln Ser Ala Trp Arg Val Ile Ser Ser Ile Glu Gln Lys Thr
 50 55 60
 Asp Thr Ser Asp Lys Lys Leu Gln Leu Ile Lys Asp Tyr Arg Glu Lys
 65 70 75 80


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Val Glu Ser Glu Leu Arg Ser Ile Cys Thr Thr Val Leu Glu Leu Leu
      85                      90                      95

Asp Lys Tyr Leu Ile Ala Asn Ala Thr Asn Pro Glu Ser Lys Val Phe
      100                    105                    110

Tyr Leu Lys Met Lys Gly Asp Tyr Phe Arg Tyr Leu Ala Glu Val Ala
      115                    120                    125

Cys Gly Asp Asp Arg Lys Gln Thr Ile Asp Asn Ser Gln Gly Ala Tyr
      130                    135                    140

Gln Glu Ala Phe Asp Ile Ser Lys Lys Glu Met Gln Pro Thr His Pro
145                      150                      155                      160

Ile Arg Leu Gly Leu Ala Leu Asn Phe Ser Val Phe Tyr Tyr Glu Ile
      165                      170                      175

Leu Asn Asn Pro Glu Leu Ala Cys Thr Leu Ala Lys Thr Ala Phe Asp
      180                      185                      190

Glu Ala Ile Ala Glu Leu Asp Thr Leu Asn Glu Asp Ser Tyr Lys Asp
      195                      200                      205

Ser Thr Leu Ile Met Gln Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr
      210                      215                      220

Ser Asp Ser Ala Gly Glu Glu Cys Asp Ala Ala Glu Gly Ala Glu Asn
225                      230                      235                      240

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<210> 1567

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1567

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Lys Ala Arg Arg Arg Gly Thr Met Ala Ala Ala Asp Glu Arg Ser
  1              5              10              15

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Pro Glu Asp Gly Glu Asp Glu Glu Glu Glu Gln Leu Val Leu Val
      20              25              30

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Glu Leu Ser Gly Ile Ile Asp Ser Xaa Phe Leu Ser Lys Cys Glu Asn
35 40 45

Lys Cys Lys Val Leu Gly Ile Asp Thr Glu Arg Pro Ile Leu Gln Val
50 55 60

Asp Ser Cys Val Phe Ala Gly Glu Tyr Glu Asp Thr Leu Gly Thr Cys
65 70 75 80

Val Ile Phe Glu Glu Asn Val Glu His Ala Asp Thr Glu Gly Asn Asn
85 90 95

Lys Thr Val Leu Lys Tyr Lys Cys His Thr Met Lys Lys Leu Ser Met
100 105 110

Thr Arg Thr Leu Leu Thr Glu Lys Lys Glu Gly Glu Glu Asn Ile Gly
115 120 125

Gly Val Glu Trp Leu Gln Ile Lys Asp Asn Asp Phe Ser Tyr Arg Pro
130 135 140

Asn Met Ile Cys Asn Phe Leu His Glu Asn Glu Asp Glu Glu Val Val
145 150 155 160

Ala Ser Ala Pro Asp Lys Ser Leu Glu Leu Glu Glu Glu Ile Gln
165 170 175

Met Asn Asp Ser Ser Asn Leu Ser Cys Glu Gln Glu Lys Pro Met His
180 185 190

Leu Glu Ile Glu Asp Ser Gly Pro Leu Ile Asp Ile Pro Ser Glu Thr
195 200 205

Glu Gly Ser Val Phe Met Glu Thr Gln Met Leu Pro
210 215 220

<210> 1568

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1568

Ala Trp Gln Glu Phe Gly Gln Xaa Pro Gly Ala Xaa Trp Gln Arg Arg
1 5 10 15

Cys Ala Cys Val Val Glu Cys Ser Gly Arg Arg Pro Ala Gly Ala Met
20 25 30

Val Phe Leu Thr Ala Gln Leu Trp Leu Arg Asn Arg Val Thr Asp Arg
35 40 45

Tyr Phe Arg Ile Gln Glu Val Leu Lys His Ala Arg His Phe Arg Gly
50 55 60

Arg Lys Asn Arg Cys Tyr Arg Leu Ala Val Arg Thr Val Ile Arg Ala
65 70 75 80

Phe Val Lys Cys Thr Lys Ala Arg Tyr Leu Lys Lys Lys Asn Met Arg
85 90 95

Thr Leu Trp Ile Asn Arg Ile Thr Ala Ala Ser Gln Glu His Gly Leu
100 105 110

Lys Tyr Pro Ala Leu Ile Gly Asn Leu Val Lys Cys Gln Val Glu Leu
115 120 125

Asn Arg Lys Val Leu Ala Asp Leu Ala Ile Tyr Glu Pro Lys Thr Phe
130 135 140

Lys Ser Leu Ala Ala Leu Ala Ser Arg Arg Arg His Glu Gly Phe Ala
145 150 155 160

Ala Ala Leu Gly Asp Gly Lys Glu Pro Glu Gly Ile Phe Ser Arg Val
165 170 175

Val Gln Tyr His
180

<210> 1569

<211> 160

<212> PRT

<213> Homo sapiens

<400> 1569

Ala Gly Pro Tyr Ala Asp Ser Ile Trp Ala Pro Ala Arg Ser Ala Ala
1 5 10 15

Gly Gln Arg Gly Val Ala Met Ala Glu Leu Gln Gln Leu Arg Val Gln
 20 25 30
 Glu Ala Val Glu Ser Met Val Lys Ser Leu Glu Arg Glu Asn Ile Arg
 35 40 45
 Lys Met Gln Gly Leu Met Phe Arg Cys Ser Ala Ser Cys Cys Glu Asp
 50 55 60
 Ser Gln Ala Ser Met Lys Gln Val His Gln Cys Ile Glu Arg Cys His
 65 70 75 80
 Val Pro Leu Ala Gln Ala Gln Ala Leu Val Thr Ser Glu Leu Glu Lys
 85 90 95
 Phe Gln Asp Arg Leu Ala Arg Cys Thr Met His Cys Asn Asp Lys Ala
 100 105 110
 Lys Asp Ser Ile Asp Ala Gly Ser Lys Glu Leu Gln Val Lys Gln Gln
 115 120 125
 Leu Asp Ser Cys Val Thr Lys Cys Val Asp Asp His Met His Leu Ile
 130 135 140
 Pro Thr Met Thr Lys Lys Met Lys Glu Ala Leu Leu Ser Ile Gly Lys
 145 150 155 160

<210> 1570

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1570

Gly Leu Ser Asp His Leu Val Phe Pro Phe Ser Ala Xaa His Val Ser
 1 5 10 15
 Arg Gly Val Ala Pro Tyr His Thr Ser Arg Ala Pro Glu Pro Tyr Phe
 20 25 30
 Leu Ile Ser Ser Gly Leu Asp Phe Pro Val Leu His Gln Gln Leu Gln
 35 40 45

Tyr Pro Lys Leu Ser Ser Pro Ala Asp Pro Pro Ser Asn Gly Val Glu
50 55 60

Thr Gly Gly Gln Cys Leu Val Cys Phe Leu Arg Asn Leu
65 70 75

<210> 1571

<211> 218

<212> PRT

<213> Homo sapiens

<400> 1571

Glu Gly Pro Ile Pro Trp Gly Arg Arg Arg Arg Glu Pro Glu Pro Leu
1 5 10 15

Leu Pro Met Ala Lys Lys Thr Tyr Asp Leu Leu Phe Lys Leu Leu Leu
20 25 30

Ile Gly Asp Ser Gly Val Gly Lys Thr Cys Val Leu Phe Arg Phe Ser
35 40 45

Asp Asp Ala Phe Asn Thr Thr Phe Ile Ser Thr Ile Gly Ile Asp Phe
50 55 60

Lys Ile Lys Thr Val Glu Leu Gln Gly Lys Lys Ile Lys Leu Gln Ile
65 70 75 80

Trp Asp Thr Ala Gly Gln Glu Arg Phe His Thr Ile Thr Thr Ser Tyr
85 90 95

Tyr Arg Gly Ala Met Gly Ile Met Leu Val Tyr Asp Ile Thr Asn Gly
100 105 110

Lys Ser Phe Glu Asn Ile Ser Lys Trp Leu Arg Asn Ile Asp Glu His
115 120 125

Ala Asn Glu Asp Val Glu Arg Met Leu Leu Gly Asn Lys Cys Asp Met
130 135 140

Asp Asp Lys Arg Val Val Pro Lys Gly Lys Gly Glu Gln Ile Ala Arg
145 150 155 160

Glu His Gly Ile Arg Phe Phe Glu Thr Ser Ala Lys Ala Asn Ile Asn
165 170 175

Ile Glu Lys Ala Phe Leu Thr Leu Ala Glu Asp Ile Leu Arg Lys Thr
180 185 190

Pro Val Lys Glu Pro Asn Ser Glu Asn Val Asp Ile Ser Ser Gly Gly
 195 200 205

Gly Val Thr Gly Trp Lys Ser Lys Cys Cys
 210 215

<210> 1572

<211> 265

<212> PRT

<213> Homo sapiens

<400> 1572

Arg Asn Leu Leu Ala Trp Pro Arg Arg Leu Ser Gly Ile Ala Arg Ala
 1 5 10 15

Leu Arg Phe Ile Ala Thr Pro Arg Leu Ser Ala Met Pro His Ile Asp
 20 25 30

Asn Asp Val Lys Leu Asp Phe Lys Asp Val Leu Leu Arg Pro Lys Arg
 35 40 45

Ser Thr Leu Lys Ser Arg Ser Glu Val Asp Leu Thr Arg Ser Phe Ser
 50 55 60

Phe Arg Asn Ser Lys Gln Thr Tyr Ser Gly Val Pro Ile Ile Ala Ala
 65 70 75 80

Asn Met Asp Thr Val Gly Thr Phe Glu Met Ala Lys Val Leu Cys Lys
 85 90 95

Phe Ser Leu Phe Thr Ala Val His Lys His Tyr Ser Leu Val Gln Trp
 100 105 110

Gln Glu Phe Ala Gly Gln Asn Pro Asp Cys Leu Glu His Leu Ala Ala
 115 120 125

Ser Ser Gly Thr Gly Ser Ser Asp Phe Glu Gln Leu Glu Gln Ile Leu
 130 135 140

Glu Ala Ile Pro Gln Val Lys Tyr Ile Cys Leu Asp Val Ala Asn Gly
 145 150 155 160

Tyr Ser Glu His Phe Val Glu Phe Val Lys Asp Val Arg Lys Arg Phe
 165 170 175

Pro Gln His Thr Ile Met Ala Gly Asn Val Val Thr Gly Glu Met Val
 180 185 190

Glu Glu Leu Ile Leu Ser Gly Ala Asp Ile Ile Lys Val Gly Ile Gly

195	200	205
Pro Gly Ser Val Cys Thr Thr Arg Lys Lys Thr Gly Val Gly Tyr Pro		
210	215	220
Gln Leu Ser Ala Val Met Glu Cys Ala Asp Ala Ala His Gly Leu Lys		
225	230	235 240
Gly Thr Ser Phe Gln Met Glu Val Ala Ala Val Leu Gly Met Trp Pro		
245	250	255
Arg Leu Leu Gly Gln Glu Leu Thr Ser		
260	265	

<210> 1573
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 1573

Glu Thr Thr Thr Thr Thr Leu Trp Arg Arg Asn Ala Asn Gly Asp Pro		
1	5	10 15
Val Cys Asn Ala Cys Gly Leu Tyr Tyr Lys Leu His Asn Val Asn Arg		
20	25	30
Pro Leu Thr Met Lys Lys Glu Gly Ile Gln Thr Arg Asn Arg Lys Met		
35	40	45
Ser Asn Lys Ser Lys Lys Ser Lys Lys Gly Ala Glu Cys Phe Glu Glu		
50	55	60
Leu Ser Lys Cys Met Gln Glu Lys Ser Ser Pro Phe Ser Ala Ala Ala		
65	70	75 80
Leu Ala Gly His Met Ala Pro Val Gly His Leu Pro Pro Phe Ser His		
85	90	95
Ser Gly His Ile Leu Pro Thr Pro Thr Pro Ile His Pro Ser Ser Ser		
100	105	110
Leu Ser Phe Gly His Pro His Pro Ser Ser Met Val Thr Ala Met Gly		
115	120	125

<210> 1574

<211> 334

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1574

Gly Ala Arg Xaa Asp Arg Ala Leu Leu Arg Pro Pro Leu Leu Arg Glu
 1 5 10 15

Leu Thr Pro Arg Ser Pro Arg Pro Pro Leu Ala Pro Ala Ala Arg Pro
 20 25 30

Ser Trp Pro Cys Leu Cys Leu Asp Gly Gly Val Ser Gly Val Phe Val
 35 40 45

Trp Asp Glu Glu Arg Ile Gln Glu Glu Glu Leu Gln Arg Ser Ile Asn
 50 55 60

Glu Met Lys Arg Leu Glu Glu Met Ser Asn Met Phe Gln Ser Ser Gly
 65 70 75 80

Val Gln His His Pro Pro Glu Pro Lys Ala Gln Thr Glu Gly Asn Glu
 85 90 95

Asp Ser Glu Gly Lys Glu Gln Arg Trp Glu Met Val Met Asp Lys Lys
 100 105 110

His Phe Lys Leu Trp Arg Arg Pro Ile Thr Gly Thr His Leu Tyr Gln
 115 120 125

Tyr Arg Val Phe Gly Thr Tyr Thr Asp Val Thr Pro Arg Gln Phe Phe
 130 135 140

Asn Val Gln Leu Asp Thr Glu Tyr Arg Lys Lys Trp Asp Ala Leu Val
 145 150 155 160

Ile Lys Leu Glu Val Ile Glu Arg Asp Val Val Ser Gly Ser Glu Val
 165 170 175

Leu His Trp Val Thr His Phe Pro Tyr Pro Met Tyr Ser Arg Asp Tyr
 180 185 190

Val Tyr Val Arg Arg Tyr Ser Val Asp Gln Glu Asn Asn Met Met Val
 195 200 205

Leu Val Ser Arg Ala Val Glu His Pro Ser Val Pro Glu Ser Pro Glu

210 215 220

Phe Val Arg Val Arg Ser Tyr Glu Ser Gln Met Val Ile Arg Pro His
225 230 235 240

Lys Ser Phe Asp Glu Asn Gly Phe Asp Tyr Leu Leu Thr Tyr Ser Asp
245 250 255

Asn Pro Gln Thr Val Phe Pro Arg Tyr Cys Val Ser Trp Met Val Ser
260 265 270

Ser Gly Met Pro Asp Phe Leu Glu Lys Leu His Met Ala Thr Leu Lys
275 280 285

Ala Lys Asn Met Glu Ile Lys Val Lys Asp Tyr Ile Ser Ala Lys Pro
290 295 300

Leu Glu Met Ser Ser Glu Ala Lys Ala Thr Ser Gln Ser Ser Glu Arg
305 310 315 320

Lys Asn Glu Gly Ser Cys Gly Pro Ala Arg Ile Glu Tyr Ala
325 330

<210> 1575

<211> 335

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (219)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (268)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1575

Pro Ser Ala Pro Arg Ala Leu Thr Leu Gln Arg Arg Lys Ile Gly Arg
1 5 10 15
Arg Gly Gln Ala Leu Met Leu Val Ser Gly Arg Arg Arg Leu Leu Thr
20 25 30
Val Leu Leu Gln Ala Gln Lys Trp Pro Phe Gln Pro Ser Arg Asp Met
35 40 45
Arg Leu Val Gln Phe Arg Ala Pro His Leu Val Gly Pro His Leu Gly
50 55 60
Leu Glu Thr Gly Asn Gly Gly Gly Val Ile Asn Leu Asn Ala Phe Asp
65 70 75 80
Pro Thr Leu Pro Lys Thr Met Thr Gln Phe Leu Glu Gln Gly Glu Ala
85 90 95
Thr Leu Ser Val Ala Arg Arg Ala Leu Ala Ala Gln Leu Pro Val Leu
100 105 110
Pro Arg Ser Glu Val Thr Phe Leu Ala Pro Val Thr Xaa Pro Asp Lys
115 120 125
Val Val Cys Val Gly Met Asn Tyr Val Asp His Cys Lys Glu Gln Asn
130 135 140
Val Pro Val Pro Lys Glu Pro Ile Ile Phe Ser Lys Phe Ala Ser Ser
145 150 155 160
Ile Val Gly Pro Tyr Asp Glu Val Val Leu Pro Pro Gln Ser Gln Glu
165 170 175
Val Asp Trp Glu Val Glu Leu Ala Val Val Ile Gly Lys Lys Gly Lys
180 185 190
His Ile Lys Ala Thr Asp Ala Met Ala His Val Ala Gly Phe Thr Val
195 200 205
Ala His Asp Val Ser Ala Arg Asp Trp Xaa Xaa Arg Arg Asn Gly Lys
210 215 220
Gln Trp Leu Leu Gly Lys Thr Phe Asp Thr Phe Cys Pro Leu Gly Pro
225 230 235 240
Ala Leu Val Thr Lys Asp Ser Val Ala Asp Pro His Asn Leu Lys Ile
245 250 255
Cys Cys Arg Val Asn Gly Glu Val Val Gln Ser Xaa Asn Thr Asn Gln
260 265 270

Met Val Phe Lys Thr Glu Asp Leu Ile Ala Trp Val Ser Gln Phe Val
275 280 285

Thr Phe Tyr Pro Gly Asp Val Ile Leu Thr Gly Thr Pro Pro Gly Val
290 295 300

Gly Val Phe Arg Lys Pro Pro Val Phe Leu Lys Lys Gly Asp Glu Val
305 310 315 320

Gln Cys Glu Ile Glu Glu Leu Gly Val Ile Ile Asn Lys Val Val
325 330 335

<210> 1576

<211> 113

<212> PRT

<213> Homo sapiens

<400> 1576

Ile Pro Glu Asp Pro His Ile Asp Glu Ser Lys Ala Lys His Gln Ala
1 5 10 15

Ile Ile Met Ser Thr Ser Leu Arg Val Ser Pro Ser Ile His Gly Tyr
20 25 30

His Phe Asp Thr Ala Ser Arg Lys Lys Ala Val Gly Asn Ile Phe Glu
35 40 45

Asn Thr Asp Gln Glu Ser Leu Glu Arg Leu Phe Arg Asn Ser Gly Asp
50 55 60

Lys Lys Ala Glu Glu Arg Ala Lys Ile Ile Phe Ala Ile Asp Gln Asp
65 70 75 80

Val Glu Glu Lys Thr Arg Ala Leu Met Ala Leu Lys Lys Arg Thr Lys
85 90 95

Asp Lys Leu Phe Gln Phe Leu Lys Leu Arg Lys Tyr Ser Ile Lys Val
100 105 110

His

<210> 1577

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1577

Gly	Ala	Ser	Trp	Xaa	Ala	Leu	Thr	Ala	Ala	Ser	Ala	Pro	Gly	Pro	Trp
1				5				10					15		

Pro	Leu	Ser	Gly	Met	Ala	Cys	Gly	Ala	Thr	Leu	Lys	Arg	Pro	Met	Glu
			20				25					30			

Phe	Glu	Ala	Ala	Leu	Leu	Ser	Pro	Gly	Ser	Pro	Lys	Arg	Arg	Arg	Cys
		35					40					45			

Ala	Pro	Leu	Pro	Gly	Pro	Thr	Pro	Gly	Leu	Arg	Pro	Pro	Asp	Ala	Glu
	50					55				60					

Pro	Pro	Pro	Pro	Phe	Gln	Thr	Gln	Thr	Pro	Pro	Gln	Ser	Leu	Gln	Gln
65					70				75					80	

Pro	Ala	Pro	Pro	Gly	Ser	Glu	Arg	Arg	Leu	Pro	Thr	Pro	Glu	Gln	Ile
				85					90					95	

Phe	Gln	Asn	Ile	Lys	Gln	Glu	Tyr	Ser	Arg	Tyr	Gln	Arg	Trp	Arg	His
		100						105					110		

Leu	Glu	Val	Val	Leu	Asn	Gln	Ser	Glu	Ala	Cys	Ala	Ser	Glu	Ser	Gln
		115				120							125		

Pro	His	Ser	Ser	Ala	Leu	Thr	Ala	Pro	Ser	Ser	Pro	Gly	Ser	Ser	Trp
	130					135					140				

Met	Lys	Lys	Asp	Gln	Pro	Thr	Phe	Thr	Leu	Arg	Gln	Val	Gly	Ile	Ile
145				150						155				160	

Cys	Glu	Arg	Leu	Leu	Lys	Asp	Tyr	Glu	Asp	Lys	Ile	Arg	Glu	Glu	Tyr
			165					170					175		

Glu	Gln	Ile	Leu	Asn	Thr	Lys	Leu	Ala	Glu	Gln	Tyr	Glu	Ser	Phe	Val
		180					185					190			

Lys	Phe	Thr	His	Asp	Gln	Ile	Met	Arg	Arg	Tyr	Gly	Thr	Arg	Pro	Thr
		195				200					205				

Ser	Tyr	Val	Ser
		210	

<210> 1578

<211> 393

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1578

Arg	Arg	Arg	Arg	Glu	Ala	Gln	Glu	Lys	Arg	Tyr	Tyr	Tyr	Asp	Leu	Asp	1	5	10	15
Asp	Ser	Tyr	Asp	Glu	Ser	Asp	Glu	Glu	Glu	Val	Arg	Ala	His	Leu	Arg	20	25	30	
Cys	Val	Ala	Glu	Gln	Pro	Pro	Leu	Lys	Leu	Asp	Thr	Ser	Ser	Glu	Lys	35	40	45	
Leu	Glu	Phe	Leu	Gln	Leu	Phe	Gly	Leu	Thr	Thr	Gln	Gln	Gln	Lys	Glu	50	55	60	
Glu	Leu	Val	Ala	Gln	Lys	Arg	Arg	Lys	Arg	Arg	Arg	Met	Leu	Arg	Glu	65	70	75	80
Arg	Ser	Pro	Ser	Pro	Pro	Thr	Ile	Gln	Ser	Lys	Arg	Gln	Thr	Pro	Ser	85	90	95	
Pro	Arg	Leu	Ala	Leu	Ser	Thr	Arg	Tyr	Ser	Pro	Asp	Glu	Met	Asn	Asn	100	105	110	
Ser	Pro	Asn	Phe	Glu	Glu	Lys	Lys	Lys	Phe	Leu	Thr	Ile	Phe	Asn	Leu	115	120	125	
Thr	His	Ile	Ser	Ala	Glu	Lys	Arg	Lys	Asp	Lys	Glu	Arg	Leu	Val	Glu	130	135	140	
Met	Leu	Arg	Ala	Met	Lys	Gln	Lys	Ala	Leu	Ser	Ala	Ala	Val	Ala	Asp	145	150	155	160
Ser	Leu	Thr	Asn	Ser	Pro	Arg	Asp	Ser	Pro	Ala	Val	Ser	Leu	Ser	Glu	165	170	175	
Pro	Ala	Thr	Gln	Gln	Ala	Ser	Leu	Asp	Val	Glu	Lys	Pro	Val	Gly	Val	180	185	190	
Ala	Ala	Ser	Leu	Ser	Asp	Ile	Pro	Lys	Ala	Ala	Asp	Leu	Gly	Ser	Trp	195	200	205	
Xaa	Gln	Val	Arg	Pro	Gln	Glu	Leu	Ser	Arg	Val	Gln	Glu	Leu	Ala	Pro	210	215	220	

Ala Ser Gly Glu Lys Gly Gln Ala Glu Arg Gly Pro Trp Arg Gln Lys
225 230 235 240

Glu Ser Glu His Ala Ser Leu Tyr Pro Gly Arg Cys Thr Gln Gly His
245 250 255

Ser Cys Ala Ala Val Pro Gln His Gln Trp Glu Glu Gln Ala Val Gly
260 265 270

Ala Leu Cys Gly Arg Arg Val Cys Thr Ser Val Pro Arg Val Gln Cys
275 280 285

Cys Ser Pro Pro Arg Arg Pro Cys Arg Ser Ile Lys Gly Ala Trp Leu
290 295 300

Cys Cys Leu Gln Ser Arg Thr Thr Arg Leu Thr Arg Pro Ser Thr Thr
305 310 315 320

Thr Phe Leu Ser Cys Ser Pro Pro Ala Ala Pro Leu His Pro Ser Thr
325 330 335

Met Gly Ser Arg Ser Pro Pro Leu Gln Gly Arg Ala Pro Gln Pro Arg
340 345 350

Ser Trp Thr Gly Thr Arg Arg Arg Arg Lys Arg Arg Met Met Lys Met
355 360 365

Glu Lys Met Arg Arg Lys Ser Pro Ser Ala Ser Gly Lys Gly Ser Arg
370 375 380

Pro Phe Leu Lys Leu Thr Arg Asn Thr
385 390

<210> 1579

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1579

Gln Ala Xaa Thr Thr Leu Thr Lys Gly Xaa Lys Ser Trp Ser Ser Thr
 1 5 10 15

Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
 20 25 30

Ser Ala Arg Gly Arg Arg Asn
 35

<210> 1580

<211> 286

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (237)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1580

Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Val Pro Ala Ser
 1 5 10 15

Glu Ser Ala Val Val Val Gln Thr Glu Cys Ser Leu Leu Phe Val Trp
 20 25 30

Leu Arg Phe His Ala Arg Arg Trp Leu Arg Met Ser Ser Ser His Phe
 35 40 45

Ala Ser Arg His Arg Lys Asp Ile Ser Thr Glu Met Ile Arg Thr Lys
 50 55 60

Ile Ala His Arg Lys Ser Leu Ser Gln Lys Glu Asn Arg His Lys Glu
 65 70 75 80

Tyr Glu Arg Asn Arg His Phe Gly Leu Lys Asp Val Asn Ile Pro Thr
 85 90 95

Leu Glu Gly Arg Ile Leu Val Glu Leu Asp Glu Thr Ser Gln Gly Leu
 100 105 110

Val Pro Glu Lys Thr Asn Val Lys Pro Arg Ala Met Lys Thr Ile Leu
 115 120 125

Gly Asp Gln Arg Lys Gln Met Leu Gln Lys Tyr Lys Glu Glu Lys Gln
 130 135 140
 Leu Gln Lys Leu Lys Glu Gln Arg Glu Lys Ala Lys Arg Gly Ile Phe
 145 150 155 160
 Lys Val Gly Arg Tyr Arg Pro Asp Met Pro Xaa Phe Leu Leu Ser Asn
 165 170 175
 Gln Asn Ala Val Lys Ala Glu Pro Lys Lys Ala Ile Pro Ser Ser Val
 180 185 190
 Arg Ile Thr Arg Ser Lys Ala Lys Asp Gln Met Glu Gln Thr Lys Ile
 195 200 205
 Asp Asn Glu Ser Asp Val Arg Ala Ile Arg Pro Gly Pro Arg Gln Thr
 210 215 220
 Ser Glu Lys Lys Val Ser Asp Lys Glu Lys Lys Val Xaa Gln Pro Val
 225 230 235 240
 Met Pro Thr Ser Leu Arg Met Thr Arg Ser Ala Thr Gln Ala Ala Lys
 245 250 255
 Gln Val Pro Arg Thr Val Ser Ser Thr Thr Ala Arg Lys Pro Val Thr
 260 265 270
 Arg Ala Ala Asn Glu Asn Gly Thr Arg Arg Lys Gly Ala Lys
 275 280 285

<210> 1581

<211> 276

<212> PRT

<213> Homo sapiens

<400> 1581

Asp Arg Arg Gly Ile Gly Ile Met Ala Ala Ala Leu Phe Val Leu Leu
 1 5 10 15
 Gly Phe Ala Leu Leu Gly Thr His Gly Ala Ser Gly Ala Ala Gly Thr
 20 25 30
 Val Phe Thr Thr Val Glu Asp Leu Gly Ser Lys Ile Leu Leu Thr Cys
 35 40 45
 Ser Leu Asn Asp Ser Ala Thr Glu Val Thr Gly His Arg Trp Leu Lys
 50 55 60

Gly Gly Val Val Leu Lys Glu Asp Ala Leu Pro Gly Gln Lys Thr Glu
 65 70 75 80
 Phe Lys Val Asp Ser Asp Asp Gln Trp Gly Glu Tyr Ser Cys Val Phe
 85 90 95
 Leu Pro Glu Pro Met Gly Thr Ala Asn Ile Gln Leu His Gly Pro Pro
 100 105 110
 Arg Val Lys Ala Val Lys Ser Ser Glu His Ile Asn Glu Gly Glu Thr
 115 120 125
 Ala Met Leu Val Cys Lys Ser Glu Ser Val Pro Pro Val Thr Asp Trp
 130 135 140
 Ala Trp Tyr Lys Ile Thr Asp Ser Glu Asp Lys Ala Leu Met Asn Gly
 145 150 155 160
 Ser Glu Ser Arg Phe Phe Val Ser Ser Ser Gln Gly Arg Ser Glu Leu
 165 170 175
 His Ile Glu Asn Leu Asn Met Glu Ala Asp Pro Gly Gln Tyr Arg Cys
 180 185 190
 Asn Gly Thr Ser Ser Lys Gly Ser Asp Gln Ala Ile Ile Thr Leu Arg
 195 200 205
 Val Arg Ser His Leu Ala Ala Leu Trp Pro Phe Leu Gly Ile Val Ala
 210 215 220
 Glu Val Leu Val Leu Val Thr Ile Ile Phe Ile Tyr Glu Lys Arg Arg
 225 230 235 240
 Lys Pro Glu Asp Val Leu Asp Asp Asp Asp Ala Gly Ser Ala Pro Leu
 245 250 255
 Lys Ser Ser Gly Gln His Gln Asn Asp Lys Gly Lys Asn Val Arg Gln
 260 265 270
 Arg Asn Ser Ser
 275

<210> 1582

<211> 476

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1582

Thr	Ile	Ser	Phe	Pro	Gly	Arg	Xaa	Leu	Asp	Lys	Phe	Ile	Lys	Phe	Phe
1				5					10					15	
Ala	Leu	Lys	Thr	Val	Gln	Val	Ile	Val	Gln	Ala	Arg	Leu	Gly	Glu	Lys
			20					25					30		
Ile	Cys	Thr	Arg	Ser	Ser	Ser	Ser	Pro	Thr	Gly	Ser	Asp	Trp	Phe	Asn
		35					40					45			
Leu	Ala	Ile	Lys	Asp	Ile	Pro	Glu	Val	Thr	His	Glu	Ala	Lys	Lys	Ala
	50					55					60				
Leu	Ala	Gly	Gln	Leu	Pro	Ala	Val	Gly	Arg	Ser	Met	Cys	Val	Glu	Ile
65				70						75				80	
Ser	Leu	Lys	Thr	Ser	Glu	Gly	Asp	Ser	Met	Glu	Leu	Glu	Ile	Trp	Cys
			85						90					95	
Leu	Glu	Met	Asn	Glu	Lys	Cys	Asp	Lys	Glu	Ile	Lys	Val	Ser	Tyr	Thr
		100						105					110		
Val	Tyr	Asn	Arg	Leu	Ser	Leu	Leu	Leu	Lys	Ser	Leu	Leu	Ala	Ile	Thr
		115				120						125			
Arg	Val	Thr	Pro	Ala	Tyr	Arg	Xaa	Ser	Arg	Lys	Gln	Gly	His	Glu	Tyr
		130				135					140				
Val	Ile	Leu	Tyr	Arg	Ile	Tyr	Phe	Gly	Glu	Val	Gln	Leu	Ser	Gly	Leu
145				150						155				160	
Gly	Glu	Gly	Phe	Gln	Thr	Val	Arg	Val	Gly	Thr	Val	Gly	Thr	Pro	Val
			165						170					175	
Gly	Thr	Ile	Thr	Leu	Ser	Cys	Ala	Tyr	Arg	Ile	Asn	Leu	Ala	Phe	Met
		180							185				190		
Ser	Thr	Arg	Gln	Phe	Glu	Arg	Thr	Pro	Pro	Ile	Met	Gly	Ile	Ile	Ile

195	200	205
Asp His Phe Val Asp Arg Pro Tyr Pro Ser Ser Ser Pro Met His Pro 210 . 215 220		
Cys Asn Tyr Arg Thr Ala Gly Glu Asp Thr Gly Val Ile Tyr Pro Ser 225 230 235 240		
Val Glu Asp Ser Gln Glu Val Cys Thr Thr Ser Phe Ser Thr Ser Pro 245 250 255		
Pro Ser Gln Leu Met Val Pro Gly Lys Glu Gly Gly Val Pro Xaa Ala 260 265 270		
Pro Asn Gln Pro Val His Gly Thr Gln Ala Asp Gln Glu Arg Leu Ala 275 280 285		
Thr Cys Thr Pro Ser Asp Arg Thr His Cys Ala Ala Thr Pro Ser Ser 290 295 300		
Ser Glu Asp Thr Glu Thr Val Ser Asn Ser Ser Glu Gly Arg Ala Ser 305 310 315 320		
Pro His Asp Val Leu Glu Thr Ile Phe Val Arg Lys Val Gly Ala Phe 325 330 335		
Val Asn Lys Pro Ile Asn Gln Val Thr Leu Thr Ser Leu Asp Ile Pro 340 345 350		
Phe Ala Met Phe Ala Pro Lys Asn Leu Glu Leu Glu Asp Thr Asp Pro 355 360 365		
Met Val Asn Pro Pro Asp Ser Pro Glu Thr Glu Ser Pro Leu Gln Gly 370 375 380		
Ser Leu His Ser Asp Gly Ser Ser Gly Gly Ser Ser Gly Asn Thr His 385 390 395 400		
Asp Asp Phe Val Met Ile Asp Phe Lys Pro Ala Phe Ser Lys Asp Asp 405 410 415		
Ile Leu Pro Met Asp Leu Gly Thr Phe Tyr Arg Glu Phe Gln Asn Pro 420 425 430		
Pro Gln Leu Ser Ser Leu Ser Ile Asp Ile Gly Ala Gln Ser Met Ala 435 440 445		
Glu Asp Leu Asp Ser Leu Pro Glu Lys Leu Ala Val His Glu Lys Asn 450 455 460		
Val Arg Glu Phe Asp Ala Phe Val Glu Thr Leu Gln		

465

470

475

<210> 1583

<211> 569

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (291)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (345)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (346)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (552)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (553)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (554)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1583

Gly	Xaa	Lys	Ser	Trp	Cys	Ser	Thr	Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu
1				5					10				15		
Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Val	Leu	Ala	Val	Val
			20					25				30			
Ala	Xaa	Val	Leu	Lys	Leu	Gly	Asn	Ile	Glu	Phe	Lys	Pro	Glu	Ser	Arg
		35					40					45			
Val	Asn	Gly	Leu	Asp	Glu	Ser	Lys	Ile	Lys	Asp	Lys	Asn	Glu	Leu	Lys
	50						55				60				
Glu	Ile	Cys	Glu	Leu	Thr	Gly	Ile	Asp	Gln	Ser	Val	Leu	Glu	Arg	Ala
65					70				75						80
Phe	Ser	Phe	Arg	Thr	Val	Glu	Ala	Lys	Gln	Glu	Lys	Val	Ser	Thr	Thr
				85					90					95	
Leu	Asn	Val	Ala	Gln	Ala	Tyr	Tyr	Ala	Arg	Asp	Ala	Leu	Ala	Lys	Asn
		100						105					110		
Leu	Tyr	Ser	Arg	Leu	Phe	Ser	Trp	Leu	Val	Asn	Arg	Ile	Asn	Glu	Ser
	115						120					125			
Ile	Lys	Ala	Gln	Thr	Lys	Val	Arg	Lys	Lys	Val	Met	Gly	Val	Leu	Asp
	130					135					140				
Ile	Tyr	Gly	Phe	Glu	Ile	Phe	Glu	Asp	Asn	Ser	Phe	Glu	Gln	Phe	Ile
145					150				155					160	
Ile	Asn	Tyr	Cys	Asn	Glu	Lys	Leu	Gln	Gln	Ile	Phe	Ile	Glu	Leu	Thr
			165					170					175		
Leu	Lys	Glu	Glu	Gln	Glu	Glu	Tyr	Ile	Arg	Glu	Xaa	Ile	Glu	Trp	Thr
		180						185					190		
His	Ile	Asp	Tyr	Phe	Asn	Asn	Ala	Ile	Ile	Cys	Asp	Leu	Ile	Glu	Asn
		195					200					205			
Asn	Thr	Asn	Gly	Ile	Leu	Ala	Met	Leu	Asp	Glu	Glu	Cys	Leu	Arg	Pro
	210					215					220				
Gly	Thr	Val	Thr	Asp	Glu	Thr	Phe	Leu	Glu	Lys	Leu	Asn	Gln	Val	Cys
225					230					235				240	
Ala	Thr	His	Gln	His	Phe	Glu	Ser	Arg	Met	Ser	Lys	Cys	Ser	Arg	Phe
			245						250					255	

Leu Asn Asp Thr Ser Leu Pro His Ser Cys Phe Arg Ile Gln His Tyr
 260 265 270
 Ala Gly Lys Val Leu Tyr Gln Val Glu Gly Phe Val Asp Lys Asn Asn
 275 280 285
 Asp Leu Xaa Tyr Arg Asp Leu Ser Gln Ala Met Trp Lys Ala Ser His
 290 295 300
 Ala Leu Ile Lys Ser Leu Phe Pro Glu Gly Asn Pro Ala Lys Ile Asn
 305 310 315 320
 Leu Lys Arg Pro Pro Thr Ala Gly Ser Gln Phe Lys Ala Ser Val Ala
 325 330 335
 Thr Leu Met Lys Asn Leu Gln Thr Xaa Xaa Pro Asn Tyr Ile Arg Cys
 340 345 350
 Ile Lys Pro Asn Asp Lys Lys Ala Ala His Ile Phe Asn Glu Ala Leu
 355 360 365
 Val Cys His Gln Ile Arg Tyr Leu Gly Leu Leu Glu Asn Val Arg Val
 370 375 380
 Arg Arg Ala Gly Tyr Ala Phe Arg Gln Ala Tyr Glu Pro Cys Leu Glu
 385 390 395 400
 Arg Tyr Lys Met Leu Cys Lys Gln Thr Trp Pro His Trp Lys Gly Pro
 405 410 415
 Ala Arg Ser Gly Val Glu Val Leu Phe Asn Glu Leu Glu Ile Pro Val
 420 425 430
 Glu Glu Tyr Ser Phe Gly Arg Ser Lys Ile Phe Ile Arg Asn Pro Arg
 435 440 445
 Thr Leu Phe Lys Leu Glu Asp Leu Arg Lys Gln Arg Leu Glu Asp Leu
 450 455 460
 Ala Thr Leu Ile Gln Lys Ile Tyr Arg Gly Trp Lys Cys Arg Thr His
 465 470 475 480
 Phe Leu Leu Met Lys Lys Ser Gln Ile Val Ile Ala Ala Trp Tyr Arg
 485 490 495
 Arg Tyr Ala Gln Gln Lys Arg Tyr Gln Gln Thr Lys Ser Ser Ala Leu
 500 505 510
 Val Ile Gln Ser Tyr Ile Arg Gly Trp Lys Ala Arg Lys Ile Leu Arg
 515 520 525

Glu Leu Lys His Gln Lys Arg Cys Lys Glu Ala Val Thr Thr Ile Ala
 530 535 540

Ala Tyr Trp His Gly Thr Gln Xaa Xaa Xaa Lys Asn Gln Glu Ile Leu
 545 550 555 560

Gln Ser Gln Cys Trp Lys Arg Lys Ser
 565

<210> 1584

<211> 267

<212> PRT

<213> Homo sapiens

<400> 1584

Arg Val Asp Pro Arg Val Arg Ile Leu Gly Ala Gly Glu Glu Ala Gly
 1 5 10 15

Ser Pro Ser Leu His Val Arg Asp Leu Thr Val Glu Met Ala Ala Gln
 20 25 30

Lys Ile Asn Glu Gly Leu Glu His Leu Ala Lys Ala Glu Lys Tyr Leu
 35 40 45

Lys Thr Gly Phe Leu Lys Trp Lys Pro Asp Tyr Asp Ser Ala Ala Ser
 50 55 60

Glu Tyr Gly Lys Ala Ala Val Ala Phe Lys Asn Ala Lys Gln Phe Glu
 65 70 75 80

Gln Ala Lys Asp Ala Cys Leu Arg Glu Ala Val Ala His Glu Asn Asn
 85 90 95

Arg Ala Leu Phe His Ala Ala Lys Ala Tyr Glu Gln Ala Gly Met Met
 100 105 110

Leu Lys Glu Met Gln Lys Leu Pro Glu Ala Val Gln Leu Ile Glu Lys
 115 120 125

Ala Ser Met Met Tyr Leu Glu Asn Gly Thr Pro Asp Thr Ala Ala Met
 130 135 140

Ala Leu Glu Arg Ala Gly Lys Leu Ile Glu Asn Val Asp Pro Glu Lys
 145 150 155 160

Ala Val Gln Leu Tyr Gln Gln Thr Ala Asn Val Phe Glu Asn Glu Glu
 165 170 175

Arg Leu Arg Gln Ala Val Glu Leu Leu Gly Lys Ala Ser Arg Leu Leu
180 185 190

Val Arg Gly Arg Arg Phe Asp Glu Ala Ala Leu Ser Ile Gln Lys Glu
195 200 205

Lys Asn Ile Tyr Lys Glu Ile Glu Asn Tyr Pro Thr Cys Tyr Lys Lys
210 215 220

Thr Ile Ala Gln Val Leu Val His Leu His Arg Asn Asp Tyr Val Ala
225 230 235 240

Ala Glu Arg Cys Val Arg Glu Ser Tyr Ser Ile Pro Gly Phe Asn Gly
245 250 255

Ser Glu Asp Cys Ala Ala Leu Gly Thr Ala Ser
260 265

<210> 1585

<211> 214

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1585

Xaa Xaa Xaa Gln Thr Ser Pro Val Leu Cys Asn Xaa Pro Arg Arg His
1 5 10 15

Arg Ala Pro Trp Pro Ser Tyr Asn Asp Glu Asp Ile Tyr Leu Phe Asn
20 25 30

Ser Ser His Ser Asp Gly Ala Gln Tyr Val Lys Arg Tyr Lys Gly His
 35 40 45
 Arg Asn Asn Ala Thr Val Lys Gly Val Asn Phe Tyr Gly Pro Lys Ser
 50 55 60
 Glu Phe Val Val Ser Gly Ser Asp Cys Gly His Ile Phe Leu Trp Glu
 65 70 75 80
 Lys Ser Ser Cys Gln Ile Ile Gln Phe Met Glu Gly Asp Lys Gly Gly
 85 90 95
 Val Val Asn Cys Leu Glu Pro His Pro His Leu Pro Val Leu Ala Thr
 100 105 110
 Ser Gly Leu Asp His Asp Val Lys Ile Trp Ala Pro Thr Ala Glu Ala
 115 120 125
 Ser Thr Glu Leu Thr Gly Leu Lys Asp Val Ile Lys Lys Asn Lys Arg
 130 135 140
 Glu Arg Asp Glu Asp Ser Leu His Gln Thr Asp Leu Phe Asp Ser His
 145 150 155 160
 Met Leu Trp Phe Leu Met His His Leu Arg Gln Arg Arg His His Arg
 165 170 175
 Arg Trp Arg Glu Pro Gly Val Gly Ala Thr Asp Ala Asp Ser Asp Glu
 180 185 190
 Ser Pro Ser Ser Ser Asp Thr Ser Asp Glu Glu Glu Gly Pro Asp Arg
 195 200 205
 Val Gln Cys Met Pro Ser
 210

<210> 1586

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1586

Gln Ile Thr Pro Asn Lys Xaa Gly His Arg Glu Ser Ala Arg Arg Pro

1 5 10 15
 Val Ile Gln Gly Pro Phe Leu Leu Asp Val Lys Glu Ser Trp Val Lys
 20 25 30
 Cys Gly Cys Asn Leu Asn Gln Leu Val Leu Val Ile Cys Phe Cys Pro
 35 40 45
 Leu Cys Phe Leu Leu Ser Asn Ala Lys Cys Val Phe Cys Ser His Glu
 50 55 60
 Leu Lys His Lys Lys Met His Glu Thr Leu
 65 70

<210> 1587

<211> 412

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1587

Ser Gly Thr His His Phe Ser Cys Val Leu Gly Ser Phe Arg Val Ser
 1 5 10 15
 Ala Met Phe Pro Arg Val Ser Thr Phe Leu Pro Leu Arg Pro Leu Ser
 20 25 30
 Arg His Pro Leu Ser Ser Gly Ser Pro Glu Thr Ser Ala Ala Ala Ile
 35 40 45
 Met Leu Leu Thr Val Arg His Gly Thr Val Arg Tyr Arg Ser Ser Ala
 50 55 60
 Leu Leu Ala Arg Thr Lys Asn Asn Ile Gln Arg Tyr Phe Gly Thr Asn
 65 70 75 80
 Ser Val Ile Cys Ser Lys Lys Asp Lys Gln Ser Val Arg Thr Glu Glu
 85 90 95
 Thr Ser Lys Glu Thr Ser Glu Ser Gln Asp Ser Glu Lys Glu Asn Thr
 100 105 110
 Lys Lys Asp Leu Leu Gly Ile Ile Lys Gly Met Lys Val Glu Leu Ser
 115 120 125

Thr Val Asn Val Arg Thr Thr Lys Pro Pro Lys Arg Arg Pro Leu Lys
130 135 140

Ser Leu Glu Ala Thr Leu Gly Arg Leu Arg Arg Ala Thr Glu Tyr Ala
145 150 155 160

Pro Lys Lys Arg Ile Glu Pro Leu Ser Pro Glu Leu Val Ala Ala Ala
165 170 175

Ser Ala Val Ala Asp Ser Leu Pro Phe Asp Lys Gln Thr Thr Lys Ser
180 185 190

Glu Leu Leu Ser Gln Leu Gln Gln His Glu Glu Glu Ser Arg Ala Gln
195 200 205

Arg Asp Ala Lys Arg Pro Lys Ile Ser Phe Ser Asn Ile Ile Ser Asp
210 215 220

Met Lys Val Ala Arg Ser Ala Thr Ala Arg Val Arg Ser Arg Pro Glu
225 230 235 240

Leu Arg Ile Gln Phe Asp Glu Gly Tyr Asp Asn Tyr Pro Gly Gln Glu
245 250 255

Lys Thr Asp Asp Leu Lys Lys Arg Lys Asn Ile Phe Thr Gly Lys Arg
260 265 270

Leu Asn Ile Phe Asp Met Met Ala Val Thr Lys Glu Ala Pro Glu Thr
275 280 285

Asp Thr Ser Pro Ser Leu Trp Xaa Val Glu Phe Ala Lys Gln Leu Ala
290 295 300

Thr Val Asn Glu Gln Pro Leu Gln Asn Gly Phe Glu Glu Leu Ile Gln
305 310 315 320

Trp Thr Lys Glu Gly Lys Leu Trp Glu Phe Pro Ile Asn Asn Glu Ala
325 330 335

Gly Phe Asp Asp Asp Gly Ser Glu Phe His Glu His Ile Phe Leu Glu
340 345 350

Lys His Leu Glu Ser Phe Pro Lys Gln Gly Pro Ile Arg His Phe Met
355 360 365

Glu Leu Val Thr Cys Gly Leu Ser Lys Asn Pro Tyr Leu Ser Val Lys
370 375 380

Gln Lys Val Glu His Ile Glu Trp Phe Arg Asn Tyr Phe Asn Glu Lys
385 390 395 400

Lys Asp Ile Leu Lys Glu Ser Asn Ile Gln Phe Asn
 405 410

<210> 1588

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1588

Ala Ile His Ser Leu Gln Gln Phe Asp Lys Ile Tyr Phe Cys Glu Gln
 1 5 10 15

Lys Leu Arg His Leu His Phe Leu Pro Met Trp Ser Leu Gln Thr Trp
 20 25 30

Glu Thr Ile His Glu Tyr Leu Tyr Cys Met Val Ile
 35 40

<210> 1589

<211> 214

<212> PRT

<213> Homo sapiens

<400> 1589

Val Gly Glu Thr Gln His Ala Leu Arg Pro Leu Cys Lys Gln His Pro
 1 5 10 15

Val Pro Pro Ser Ser Pro Arg Pro Ser Glu Glu Met Val Lys Met Val
 20 25 30

Leu Ser Arg Pro Cys His Pro Asp Asp Gln Phe Thr Thr Ser Ile Leu
 35 40 45

Arg His Trp Cys Met Lys His Asp Glu Leu Leu Ala Glu His Ile Lys
 50 55 60

Ser Leu Leu Ile Lys Asn Asn Ser Leu Pro Arg Lys Arg Gln Ser Leu
 65 70 75 80

Arg Ser Ser Ser Ser Lys Leu Ala Gln Leu Thr Leu Glu Gln Ile Leu
 85 90 95

Glu His Leu Asp Asn Leu Arg Leu Asn Leu Thr Asn Thr Lys Gln Asn
 100 105 110

Phe Phe Ser Gln Thr Pro Ile Leu Gln Ala Leu Gln His Val Gln Ala
 115 120 125

Ser Cys Asp Glu Ala His Lys Met Lys Phe Ser Asp Leu Phe Ser Leu
 130 135 140
 Ala Glu Glu Tyr Glu Asp Ser Ser Thr Lys Pro Pro Lys Ser Arg Arg
 145 150 155 160
 Lys Ala Ala Leu Ser Ser Pro Arg Ser Arg Lys Asn Ala Thr Gln Pro
 165 170 175
 Pro Asn Ala Glu Glu Glu Ser Gly Ser Ser Ser Ala Ser Glu Glu Glu
 180 185 190
 Asp Thr Lys Pro Lys Pro Thr Lys Arg Lys Arg Lys Gly Ser Ser Ala
 195 200 205
 Val Gly Ser Asp Ser Asp
 210

<210> 1590

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1590

Lys Met His Ile Leu His Ala Asp Ile Lys Pro Asp Asn Ile Leu Val
 1 5 10 15
 Asn Glu Ser Lys Thr Ile Leu Lys Leu Cys Xaa Phe Gly Ser Ala Ser
 20 25 30
 His Val Ala Asp Asn Asp Ile Thr Pro Tyr Leu Val Ser Arg Phe Tyr
 35 40 45
 Arg Ala Pro Glu Ile Ile Ile Gly Lys Ser Tyr Asp Tyr Gly Ile Asp
 50 55 60
 Met Trp Ser Val Gly Cys Thr Leu Tyr Glu Leu Tyr Thr Gly Lys Ile
 65 70 75 80
 Leu Phe Pro Gly Lys Thr Asn Asn His Met Leu Lys Leu Ala Met Asp
 85 90 95
 Leu Lys Gly Lys Met Pro Asn Lys Met Ile Arg Lys Gly Val Phe Lys

100	105	110
Asp Gln His Phe Asp Gln Asn Leu Asn Phe Met Tyr Ile Glu Val Asp		
115	120	125
Lys Val Thr Glu Arg Glu Lys Val Thr Val Met Ser Thr Ile Asn Pro		
130	135	140
Thr Lys Asp Leu Leu Ala Asp Leu Ile Gly Cys Gln Arg Leu Pro Glu		
145	150	155
Asp Gln Arg Lys Lys Val His Gln Leu Lys Asp Leu Leu Asp Gln Ile		
165	170	175
Leu Met Leu Asp Pro Ala Lys Arg Ile Ser Ile Asn Gln Ala Leu Gln		
180	185	190
His Ala Phe Ile Gln Glu Lys Ile		
195	200	

<210> 1591

<211> 115

<212> PRT

<213> Homo sapiens

<400> 1591

Val Thr Leu Ala Arg Ser Leu Gln Ser Arg Pro Val Ala Met Ser Ala		
1	5	10
Asp Val Thr Ser Ser Leu Ala Ala Phe Gly Glu Gly Trp Gly Val Arg		
20	25	30
Glu Leu Ser Asp His Ser Ser Pro Arg Pro Leu Leu Gly Leu Ala Arg		
35	40	45
Arg Ala Pro Arg Val Asp Pro Pro Ala Thr Gly Val Phe Ser Pro Leu		
50	55	60
Leu Pro Pro Ser Gly Leu Met Arg Gln Arg Gly Gly Cys Gly Ala Cys		
65	70	75
Leu Gly Arg Thr Glu Leu Ser Leu Gly Lys Thr Tyr Phe Val Asn Lys		
85	90	95
Trp Asn Thr Trp Leu Tyr Ser Lys Lys Lys Lys Lys Lys Lys Lys		
100	105	110
Lys Ser Arg		
115		

<210> 1592

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1592

Val Cys Cys Cys Lys Lys Ser Pro Met Cys Ile Thr Asn Ser Glu Tyr
1 5 10 15
Phe Leu Arg Leu Lys Lys Thr Gly Val Thr Ser Arg Tyr Cys Cys Val
20 25 30
Met Val Thr Leu Thr Lys Arg His Gln Pro Leu Arg Val Leu Tyr Cys
35 40 45
Lys Ala Gln Ile Thr Phe Val Cys Tyr Thr Leu Ile Gly Glu Leu Lys
50 55 60
Val Ile
65

<210> 1593

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1593

Glu Ser Leu Trp Ala Phe Cys Leu Ser Leu Leu Glu Arg Leu Ala Cys
1 5 10 15
Cys Ser Leu Leu Tyr Pro Glu Val Cys Leu Trp Asp Phe Ser Pro Val
20 25 30
Ala Val Glu Thr Arg Arg Pro Thr Leu Phe Glu Thr Gln Met Leu Leu
35 40 45
Ser Leu Ala Ser Pro Ser Leu Ser Ser Pro Asn Glu Pro Thr Phe Cys
50 55 60
Thr Ser Thr Arg Met Pro Gly Arg Leu Gly Pro Gln Arg Leu Leu Phe
65 70 75 80
Gln Asn Leu Trp Lys Pro Arg Leu Asn Val Pro
85 90

<210> 1594

<211> 442

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1594

Leu Glu Gln Glu Leu Gly Asp Gly Trp Gly His Ser Asp Leu His Lys
 1 5 10 15

Ala Leu Leu Cys Arg Xaa Pro Pro Leu Pro Glu Pro Asp Ala Met Ser
 20 25 30

Ser Lys Gly Ser Val Val Leu Ala Tyr Ser Gly Gly Leu Asp Thr Ser
 35 40 45

Cys Ile Leu Val Trp Leu Lys Glu Gln Gly Tyr Asp Val Ile Ala Tyr
 50 55 60

Leu Ala Asn Ile Gly Gln Lys Glu Asp Phe Glu Glu Ala Arg Lys Lys
 65 70 75 80

Ala Leu Lys Leu Gly Ala Lys Lys Val Phe Ile Glu Asp Val Ser Arg
 85 90 95

Glu Phe Val Glu Glu Phe Ile Trp Pro Ala Ile Gln Ser Ser Ala Leu
 100 105 110

Tyr Glu Asp Arg Tyr Leu Leu Gly Thr Ser Leu Ala Arg Pro Cys Ile
 115 120 125

Ala Arg Lys Gln Val Glu Ile Ala Gln Arg Glu Gly Ala Lys Tyr Val
 130 135 140

Ser His Gly Ala Thr Gly Lys Gly Asn Asp Gln Val Arg Phe Glu Leu
 145 150 155 160

Ser Cys Tyr Ser Leu Ala Pro Gln Ile Lys Val Ile Ala Pro Trp Arg
 165 170 175

Met Pro Glu Phe Tyr Asn Arg Phe Lys Gly Arg Asn Asp Leu Met Glu
 180 185 190

Tyr Ala Lys Gln His Gly Ile Pro Ile Pro Val Thr Pro Lys Asn Pro
 195 200 205

Trp Ser Met Asp Glu Asn Leu Met His Ile Ser Tyr Glu Ala Gly Ile
 210 215 220
 Leu Glu Asn Pro Lys Asn Gln Ala Pro Pro Gly Leu Tyr Thr Lys Thr
 225 230 235 240
 Gln Asp Pro Ala Lys Ala Pro Asn Thr Pro Asp Ile Leu Glu Ile Glu
 245 250 255
 Phe Lys Lys Gly Val Pro Val Lys Val Thr Asn Val Lys Asp Gly Thr
 260 265 270
 Thr His Gln Thr Ser Leu Glu Leu Phe Met Tyr Leu Asn Glu Val Ala
 275 280 285
 Gly Lys His Gly Val Gly Arg Ile Asp Ile Val Glu Asn Arg Phe Ile
 290 295 300
 Gly Met Lys Ser Arg Gly Ile Tyr Glu Thr Pro Ala Gly Thr Ile Leu
 305 310 315 320
 Tyr His Ala His Leu Asp Ile Glu Ala Phe Thr Met Asp Arg Glu Val
 325 330 335
 Arg Lys Ile Lys Gln Gly Leu Gly Leu Lys Phe Ala Glu Leu Val Tyr
 340 345 350
 Thr Gly Phe Trp His Ser Pro Glu Cys Glu Phe Val Arg His Cys Ile
 355 360 365
 Ala Lys Ser Gln Glu Arg Val Glu Gly Lys Val Gln Val Ser Val Leu
 370 375 380
 Lys Gly Gln Val Tyr Ile Leu Gly Arg Glu Ser Pro Leu Ser Leu Tyr
 385 390 395 400
 Asn Glu Glu Leu Val Ser Met Asn Val Gln Gly Asp Tyr Glu Pro Thr
 405 410 415
 Asp Ala Thr Gly Phe Ile Asn Ile Asn Ser Leu Arg Leu Lys Glu Tyr
 420 425 430
 His Arg Leu Gln Ser Lys Val Thr Ala Lys
 435 440

<210> 1595

<211> 456

<212> PRT

<213> Homo sapiens

<400> 1595

Phe Gly Thr Ser Gln Phe Leu Leu Pro Leu Pro Ala Lys Met Ser Asp
 1 5 10 15
 Met Glu Asp Asp Phe Met Cys Asp Asp Glu Glu Asp Tyr Asp Leu Glu
 20 25 30
 Tyr Ser Glu Asp Ser Asn Ser Glu Pro Asn Val Asp Leu Glu Asn Gln
 35 40 45
 Tyr Tyr Asn Ser Lys Ala Leu Lys Glu Asp Asp Pro Lys Ala Ala Leu
 50 55 60
 Ser Ser Phe Gln Lys Val Leu Glu Leu Glu Gly Glu Lys Gly Glu Trp
 65 70 75 80
 Gly Phe Lys Ala Leu Lys Gln Met Ile Lys Ile Asn Phe Lys Leu Thr
 85 90 95
 Asn Phe Pro Glu Met Met Asn Arg Tyr Lys Gln Leu Leu Thr Tyr Ile
 100 105 110
 Arg Ser Ala Val Thr Arg Asn Tyr Ser Glu Lys Ser Ile Asn Ser Ile
 115 120 125
 Leu Asp Tyr Ile Ser Thr Ser Lys Gln Met Asp Leu Leu Gln Glu Phe
 130 135 140
 Tyr Glu Thr Thr Leu Glu Ala Leu Lys Asp Ala Lys Asn Asp Arg Leu
 145 150 155 160
 Trp Phe Lys Thr Asn Thr Lys Leu Gly Lys Leu Tyr Leu Glu Arg Glu
 165 170 175
 Glu Tyr Gly Lys Leu Gln Lys Ile Leu Arg Gln Leu His Gln Ser Cys
 180 185 190
 Gln Thr Asp Asp Gly Glu Asp Asp Leu Lys Lys Gly Thr Gln Leu Leu
 195 200 205
 Glu Ile Tyr Ala Leu Glu Ile Gln Met Tyr Thr Ala Gln Lys Asn Asn
 210 215 220
 Lys Lys Leu Lys Ala Leu Tyr Glu Gln Ser Leu His Ile Lys Ser Ala
 225 230 235 240
 Ile Pro His Pro Leu Ile Met Gly Val Ile Arg Glu Cys Gly Gly Lys
 245 250 255
 Met His Leu Arg Glu Gly Glu Phe Glu Lys Ala His Thr Asp Phe Phe

260	265	270
Glu Ala Phe Lys Asn Tyr Asp	Glu Ser Gly Ser Pro Arg Arg Thr Thr	
275	280	285
Cys Leu Lys Tyr Leu Val Leu Ala Asn Met Leu Met Lys Ser Gly Ile		
290	295	300
Asn Pro Phe Asp Ser Gln Glu Ala Lys Pro Tyr Lys Asn Asp Pro Glu		
305	310	315
Ile Leu Ala Met Thr Asn Leu Val Ser Ala Tyr Gln Asn Asn Asp Ile		
325	330	335
Thr Glu Phe Glu Lys Ile Leu Lys Thr Asn His Ser Asn Ile Met Asp		
340	345	350
Asp Pro Phe Ile Arg Glu His Ile Glu Glu Leu Leu Arg Asn Ile Arg		
355	360	365
Thr Gln Val Leu Ile Lys Leu Ile Lys Pro Tyr Thr Arg Ile His Ile		
370	375	380
Pro Phe Ile Ser Lys Glu Leu Asn Ile Asp Val Ala Asp Val Glu Ser		
385	390	395
Leu Leu Val Gln Cys Ile Leu Asp Asn Thr Ile His Gly Arg Ile Asp		
405	410	415
Gln Val Asn Gln Leu Leu Glu Leu Asp His Gln Lys Arg Gly Gly Ala		
420	425	430
Arg Tyr Thr Ala Leu Asp Lys Trp Thr Asn Gln Leu Asn Ser Leu Asn		
435	440	445
Gln Ala Val Val Ser Lys Leu Ala		
450	455	

<210> 1596

<211> 375

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1596

Ser Phe Gly Glu Arg Ala Pro Ser Thr Arg Ser Gly Asp Pro Leu Val
 1 5 10 15
 Ala Val Leu Pro Thr Arg Thr Arg Val Pro Gln Ala Ser Arg Cys Pro
 20 25 30
 Ala Gly Ser Ser Cys Pro Thr Pro Gly Ala Arg Pro Pro Ala Ser Pro
 35 40 45
 Gly Pro Leu Pro Arg Pro Ser Ser Arg Arg Ala Arg Ser Met Ala Pro
 50 55 60
 Pro Gln Val Leu Ala Phe Gly Leu Leu Leu Ala Ala Ala Thr Ala Thr
 65 70 75 80
 Phe Ala Ala Ala Gln Glu Glu Cys Val Cys Glu Asn Tyr Lys Leu Ala
 85 90 95
 Val Asn Cys Phe Val Asn Asn Asn Arg Gln Cys Gln Cys Thr Ser Val
 100 105 110
 Gly Ala Gln Asn Thr Val Ile Cys Ser Lys Leu Ala Ala Lys Cys Leu
 115 120 125
 Val Met Lys Ala Glu Met Asn Gly Ser Lys Leu Gly Arg Arg Ala Lys
 130 135 140
 Pro Glu Gly Ala Leu Gln Asn Asn Asp Gly Leu Tyr Asp Pro Asp Cys
 145 150 155 160
 Asp Glu Ser Gly Leu Phe Lys Ala Lys Gln Cys Asn Gly Thr Ser Xaa
 165 170 175
 Cys Trp Cys Val Asn Thr Ala Gly Val Arg Arg Thr Asp Lys Asp Thr
 180 185 190
 Glu Ile Thr Cys Ser Glu Arg Val Arg Thr Tyr Trp Ile Ile Ile Glu
 195 200 205
 Leu Lys His Lys Ala Arg Glu Lys Pro Tyr Asp Ser Lys Ser Leu Arg
 210 215 220
 Thr Ala Leu Gln Lys Glu Ile Thr Thr Arg Tyr Gln Leu Asp Pro Lys
 225 230 235 240
 Phe Ile Thr Ser Ile Leu Tyr Glu Asn Asn Val Ile Thr Ile Asp Leu
 245 250 255
 Val Gln Asn Ser Ser Gln Lys Thr Gln Asn Asp Val Asp Ile Ala Asp
 260 265 270

Val Ala Tyr Tyr Phe Glu Lys Asp Val Lys Gly Glu Ser Leu Phe His
 275 280 285
 Ser Lys Lys Met Asp Leu Thr Val Asn Gly Glu Gln Leu Asp Leu Asp
 290 295 300
 Pro Gly Gln Thr Leu Ile Tyr Tyr Val Asp Glu Lys Ala Pro Glu Phe
 305 310 315 320
 Ser Met Gln Gly Leu Lys Ala Gly Val Ile Ala Val Ile Val Val Val
 325 330 335
 Val Ile Ala Val Val Ala Gly Ile Val Val Leu Val Ile Ser Arg Lys
 340 345 350
 Lys Arg Met Ala Lys Tyr Glu Lys Ala Glu Ile Lys Glu Met Gly Glu
 355 360 365
 Met His Arg Glu Leu Asn Ala
 370 375

<210> 1597

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1597

Ala Leu Gly Pro Gln Ala Ser Pro Leu Gln Ser Leu Ala Ala Ser Leu
 1 5 10 15
 Asp Ala Glu Pro Ser Ser Ala Ala Val Pro Asp Gly Phe Pro Ala Gly
 20 25 30
 Pro Thr Val Ser Pro Arg Arg Leu Ala Arg Pro Pro Gly Leu Glu Glu
 35 40 45
 Ala Leu Ser Ala Leu Gly Leu Gln Gly Glu Arg Asp Thr Pro Gly Thr
 50 55 60
 Ser Ser Pro Lys Ser Trp Xaa Gly Ser Arg Glu Arg Gln Lys His Ser
 65 70 75 80
 Val Gly Glu

<210> 1598

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1598

Gln Pro Glu Val Pro Asp Arg Arg Cys Val Ile His Arg Arg Arg Arg
1 5 10 15
Tyr Gly Ser Ser Thr Glu Ala His Ala Lys Leu Ser Thr Met Ala Ser
20 25 30
Ser Thr Val Pro Val Ser Ala Ala Gly Ser Ala Asn Glu Thr Pro Glu
35 40 45
Ile Pro Asp Asn Val Gly Asp Trp Leu Arg Gly Val Tyr Arg Phe Ala
50 55 60
Thr Asp Arg Asn Asp Phe Arg Arg Asn Leu Ile Leu Asn Leu Gly Leu
65 70 75 80
Phe Ala Ala Gly Val Trp Leu Ala Arg Asn Leu Ser Asp Ile Asp Leu
85 90 95
Met Ala Pro Gln Pro Gly Val
100

<210> 1599

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1599

Arg Arg Thr Tyr Tyr Gly Lys Thr Trp Asn Cys Arg Ala Arg Tyr Leu
1 5 10 15

Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ala Asp Trp Gly Gly
20 25 30

Gly Gly Leu Ala Arg Pro Gly Leu Ala Cys Gln Gly Ala Gly Gly Gly
35 40 45

Gly Ser Ser Thr Met Ser Leu Gln Tyr Gly Ala Glu Glu Thr Pro Leu
50 55 60

Ala Gly Ser Tyr Gly Ala Ala Asp Ser Phe Pro Lys Asp Phe Gly Tyr
65 70 75 80

Gly Val Glu Glu Glu Glu Glu Glu Ala Ala Ala Ala Gly Gly Gly Val
85 90 95

Gly Ala Gly Ala Gly Gly Gly Cys Gly Pro Gly Gly Ala Asp Ser Ser
100 105 110

Lys Pro Arg Ile Leu Leu Met Gly Thr Pro Ala Gln Xaa Lys Phe Leu
115 120 125

His Pro Glu Ser Gly Val Xaa Ile Lys Met Phe Asn Gln Arg Asp Pro
130 135 140

Leu Phe Leu Gly Asn Tyr Gln Thr Arg Phe
145 150

<210> 1600

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1600

Gly Cys Ser Phe Lys Trp Gly Leu Thr Gly Asn Val Thr Leu Ser Arg

1 5 10 15
 Asp Val Arg Glu Val Asp Pro Xaa Gln Gly Xaa Pro Gly Arg Gly Thr
 20 25 30
 Gly Cys Ala Leu Pro Gln Ser Glu Asn Leu Leu Tyr Val Val Arg Lys
 35 40 45
 Glu Gln Gly Asp Gln Ala Glu Ser Trp Ala Gly Val Glu Trp Lys Glu
 50 55 60
 Arg Arg Leu Xaa Arg Thr Gly Gly Gly Gly Pro Trp Leu Leu Leu Ser
 65 70 75 80
 Glu Met Gly Thr Thr Gly Gly Phe Glu Gln Arg Ser Ala Leu Ile Asp
 85 90 95
 Leu Tyr Phe Ala Arg Val Ile Leu Ala Ala Ile Leu
 100 105

<210> 1601

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1601

Ala Pro Arg Ser Pro Arg Gly Arg Cys Gly Gly Thr Arg Ala Glu Ala
 1 5 10 15
 Ala Ala Ala Thr Trp Ala Ala Ala Gly Pro Arg Arg Arg Ala Val Arg
 20 25 30
 Met Ser Gly Trp Ala Asp Glu Arg Gly Gly Glu Gly Asp Gly Arg Ile
 35 40 45
 Tyr Val Gly Asn Leu Pro Thr Asp Val Arg Glu Lys Asp Leu Glu Asp
 50 55 60
 Leu Phe Tyr Lys Tyr Gly Arg Ile Arg Glu Ile Glu Leu Lys Asn Arg
 65 70 75 80
 His Gly Leu Val Pro Phe Ala Phe Val Arg Phe Glu Asp Pro Arg Asp
 85 90 95
 Ala Glu Asp Ala Ile Tyr Gly Arg Asn Gly Tyr Asp Tyr Gly Gln Cys
 100 105 110
 Arg Leu Arg Val Glu Phe Pro Arg Thr Tyr Gly Gly Arg Gly Gly Trp
 115 120 125

Pro Arg Gly Gly Arg Asn Gly Pro Pro Thr Arg Arg Ser Asp Phe Arg
 130 135 140
 Val Leu Val Ser Gly Leu Pro Pro Ser Gly Ser Trp Gln Asp Leu Lys
 145 150 155 160
 Asp His Met Arg Glu Ala Gly Asp Val Cys Tyr Ala Asp Val Gln Lys
 165 170 175
 Asp Gly Val Gly Met Val Glu Tyr Leu Arg Lys Glu Asp Met Glu Tyr
 180 185 190
 Ala Leu Arg Lys Leu Asp Asp Thr Lys Phe Arg Ser His Glu Gly Glu
 195 200 205
 Thr Ser Tyr Ile Arg Val Tyr Pro Glu Arg Ser Thr Ser Tyr Gly Tyr
 210 215 220
 Ser Arg Ser Arg Ser Gly Ser Arg Gly Arg Asp Ser Pro Tyr Gln Ser
 225 230 235 240
 Arg Gly Ser Pro His Tyr Phe Ser Pro Phe Arg Pro Tyr
 245 250

<210> 1602

<211> 310

<212> PRT

<213> Homo sapiens

<400> 1602

Pro Arg Ala Ala Arg Pro Pro Ala Met Glu Pro Gly Pro Asp Gly Pro
 1 5 10 15
 Ala Ala Ser Gly Pro Ala Ala Ile Arg Glu Gly Trp Phe Arg Glu Thr
 20 25 30
 Cys Ser Leu Trp Pro Gly Gln Ala Leu Ser Leu Gln Val Glu Gln Leu
 35 40 45
 Leu His His Arg Arg Ser Arg Tyr Gln Asp Ile Leu Val Phe Arg Ser
 50 55 60
 Lys Thr Tyr Gly Asn Val Leu Val Leu Asp Gly Val Ile Gln Cys Thr
 65 70 75 80
 Glu Arg Asp Glu Phe Ser Tyr Gln Glu Met Ile Ala Asn Leu Pro Leu
 85 90 95

Cys Ser His Pro Asn Pro Arg Lys Val Leu Ile Ile Gly Gly Gly Asp
 100 105 110
 Gly Gly Val Leu Arg Glu Val Val Lys His Pro Ser Val Glu Ser Val
 115 120 125
 Val Gln Cys Glu Ile Asp Glu Asp Val Ile Gln Val Ser Lys Lys Phe
 130 135 140
 Leu Pro Gly Met Ala Ile Gly Tyr Ser Ser Ser Lys Leu Thr Leu His
 145 150 155 160
 Val Gly Asp Gly Phe Glu Phe Met Lys Gln Asn Gln Asp Ala Phe Asp
 165 170 175
 Val Ile Ile Thr Asp Ser Ser Asp Pro Met Gly Pro Ala Glu Ser Leu
 180 185 190
 Phe Lys Glu Ser Tyr Tyr Gln Leu Met Lys Thr Ala Leu Lys Glu Asp
 195 200 205
 Gly Val Leu Cys Cys Gln Gly Glu Cys Gln Trp Leu His Leu Asp Leu
 210 215 220
 Ile Lys Glu Met Arg Gln Phe Cys Gln Ser Leu Phe Pro Val Val Ala
 225 230 235 240
 Tyr Ala Tyr Cys Thr Ile Pro Thr Tyr Pro Ser Gly Gln Ile Gly Phe
 245 250 255
 Met Leu Cys Ser Lys Asn Pro Ser Thr Asn Phe Gln Glu Pro Val Gln
 260 265 270
 Pro Leu Thr Gln Gln Gln Val Ala Gln Met Gln Leu Lys Tyr Tyr Asn
 275 280 285
 Ser Asp Val His Arg Ala Ala Phe Val Leu Pro Glu Phe Ala Arg Lys
 290 295 300
 Ala Leu Asn Asp Val Ser
 305 310

<210> 1603

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1603

Val Asn Val Ser Gly Phe Val Gln Gly Thr Cys Lys Gly Phe Gly Ser
1 5 10 15

Met Val Arg Xaa Glu Arg Gln Glu Leu Glu Xaa Met Leu Leu Xaa Lys
20 25 30

Ser Arg Asp Ile Asn Phe Gly Val Thr
35 40

<210> 1604

<211> 132

<212> PRT

<213> Homo sapiens

<400> 1604

Ser Ala Trp Arg Ser Pro Asn Thr Ala Val Gln Pro Ala Ala Cys Pro
1 5 10 15

Lys Gln Cys Asn Pro Glu Thr Arg Pro Val Glu Lys Lys Ile Arg Ser
20 25 30

Ala Leu Pro Thr Lys Thr Val Lys Pro Val Glu Asn Lys Asp Asp Asp
35 40 45

Asp Ser Ile Ala Asp Phe Leu Asn Ser Asp Glu Glu Glu Asp Arg Val
50 55 60

Ser Leu Gln Asn Leu Lys Asn Leu Gly Glu Ser Ala Thr Leu Arg Ser
65 70 75 80

Leu Leu Leu Asn Pro His Leu Arg Gln Leu Met Val Asn Leu Asp Gln
85 90 95

Gly Glu Asp Lys Ala Lys Leu Met Arg Ala Tyr Met Gln Glu Pro Leu
100 105 110

Phe Val Glu Phe Ala Asp Cys Cys Leu Gly Ile Val Glu Pro Ser Gln
115 120 125

Asn Glu Glu Ser
130

<210> 1605

<211> 326

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (285)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (287)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (290)

<223> xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (306)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1605

Pro Arg Ile His Leu Glu Asn Val Ser Glu Asp Glu Ile Asn Arg Leu
1 5 10 15

Leu Gly Met Val Val Asp Val Glu Asn Leu Phe Met Ser Xaa Xaa Lys
20 25 30

Glu Glu Asp Thr Asp Thr Lys Gln Val Tyr Phe Tyr Leu Phe Lys Leu
35 40 45

Leu Arg Lys Cys Ile Leu Gln Met Thr Arg Pro Val Val Glu Gly Ser
50 55 60

Leu Gly Ser Pro Pro Phe Glu Lys Pro Asn Ile Glu Gln Gly Val Leu
65 70 75 80

Asn Phe Val Gln Tyr Lys Phe Ser His Leu Ala Pro Arg Glu Arg Gln
85 90 95

Thr Met Phe Glu Leu Ser Lys Met Phe Leu Leu Cys Leu Asn Tyr Trp
100 105 110

Lys Leu Glu Xaa Pro Ala Gln Phe Arg Gln Arg Ser Gln Ala Glu Asp
115 120 125

Val Ala Thr Tyr Lys Val Asn Tyr Thr Arg Trp Leu Cys Tyr Cys His
130 135 140

Val Pro Gln Ser Cys Asp Ser Leu Pro Arg Tyr Glu Thr Thr His Val
145 150 155 160

Phe Gly Arg Ser Leu Leu Arg Ser Ile Phe Thr Val Thr Arg Arg Gln
165 170 175

Leu Leu Glu Lys Phe Xaa Val Glu Lys Asp Lys Leu Val Pro Glu Lys
180 185 190

Arg Thr Ser Ser Ser Leu Thr Ser Pro Ser Lys Ala Pro Ser Gly Leu

195	200	205
Pro Gly Phe Gly Pro Lys Phe Thr Ser Ser Leu Leu Ser Pro Phe Phe		
210	215	220
Gln Xaa Gly Phe Leu Asp Trp Ser Leu Leu Ser Leu His Gly Pro Phe		
225	230	235 240
Gly Ile Trp Ala Ser Thr Trp Gln Thr Cys Pro Trp Pro Arg Ser Asn		
	245	250 255
Leu Leu Val Leu Val Trp Gly Trp Gln Ile Pro Val His Ala Gly Gly		
	260	265 270
Gly Asp Leu Trp Gly Lys Leu Ser Asn Leu Gly Val Xaa Leu Xaa His		
	275	280 285
Ala Xaa Leu Arg Gly Asp Thr Ala Gly Xaa Pro Gly Gln Leu Gln Ser		
	290	295 300
Val Xaa Gly Leu Phe Pro Ala Pro Pro Ser Ser Ala Pro Ala Trp Val		
305	310	315 320
Gly Ala Ala Thr Ala Pro		
	325	

<210> 1606

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1606

Phe Gly Thr Trp Lys Lys Lys Lys Lys Thr Leu Arg Asp Ser Leu Cys

1

5

10

15

Glu Glu Leu Leu Thr Glu Ser Leu Ser Thr Phe Leu Pro Pro Asp Xaa
 20 25 30
 Glu Asp Xaa Gly Val Ser Val Ser Val Leu Ser Pro Leu Leu Phe Pro
 35 40 45
 Asn Gln Gly Leu Cys His Tyr Cys Pro Ser Gln Leu Ser Met Gln Glu
 50 55 60
 Asp Arg Val Ala Trp Xaa Ser Tyr Pro Cys Pro Ser Pro Lys Gly Ser
 65 70 75 80
 Thr Arg Lys Leu Lys Arg Leu Lys Lys Lys Arg Val Cys Ser
 85 90

<210> 1607

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1607

Ala Ala Ala Trp Cys Ala Arg Leu Ala Gly Asp Gly Ile Arg Arg Thr
 1 5 10 15
 Trp Thr Pro Pro Glu Trp Lys Pro Lys Gln Glu Leu Leu Leu Leu Arg
 20 25 30
 Gly Cys Arg Ser Arg Arg Glu Pro Pro Asp Arg Arg Gln Ser Glu Glu
 35 40 45
 Gly Ala Thr Arg Leu Gly Lys Met Thr Gln Phe Leu Pro Pro Asn Leu
 50 55 60
 Leu Ala Leu Phe Ala Pro Arg Asp Pro Ile Pro Tyr Leu Pro Pro Leu
 65 70 75 80
 Glu Lys Leu Pro His Glu Lys His His Asn Gln Pro Tyr Cys Gly Ile
 85 90 95
 Ala Pro Tyr Ile Arg Glu Phe Glu Asp Pro Arg Asp Ala Pro Pro Pro
 100 105 110
 Thr Arg Ala Glu Thr Arg Glu Glu Arg Met Glu Arg Lys Arg Arg Glu
 115 120 125
 Lys Ile Glu Arg Arg Gln Gln Glu Val Glu Thr Glu Leu Lys Met Trp
 130 135 140

Asp Pro His Asn Asp Pro Asn Ala Gln Gly Asp Ala Phe Lys Thr Leu
 145 150 155 160
 Phe Val Ala Arg Val Asn Tyr Asp Thr Thr Glu Ser Lys Leu Arg Arg
 165 170 175
 Glu Phe Glu Val Tyr Gly Pro Ile Lys Arg Ile His Met Val Tyr Ser
 180 185 190
 Lys Arg Ser Gly Lys Pro Arg Gly Tyr Ala Phe Ile Glu Tyr Glu His
 195' 200 205
 Glu Arg Asp Met His Ser Ala Tyr Lys His Ala Asp Gly Lys Lys Ile
 210 215 220
 Asp Gly Arg Arg Val Leu Val Asp Val Glu Arg Gly Arg Thr Val Lys
 225 230 235 240
 Gly Trp Arg Pro Gly Gly
 245

<210> 1608

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1608

Gly Pro Ser Leu Ser Leu Met Phe Lys Gln Ser Leu Ser Met Lys Leu
 1 5 10 15

Gly Gly Asp Arg Val Ser Cys Gln Phe Leu Thr Ala Thr Ser His Gln
 20 25 30

Trp Leu His Ser Val Ser Leu Thr Gln His Met Ala Gln Glu Cys Cys
 35 40 45

His Pro Ser Val Phe Tyr Ser Ser Asn Pro Arg Xaa Trp Xaa Leu Arg
 50 55 60

Lys Lys Lys Lys Lys

210

<210> 1610

<211> 916

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (365)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (524)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (687)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (806)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1610

Arg Pro Thr Arg Pro Ala Gly Ser Thr Asp Cys His Gly Ala Ala Ala
1 5 10 15

Gly Val Arg Ala Thr Leu Val Leu Glu Leu Leu Asp Thr Asp Gly Leu
20 25 30

Val Val Cys Ala Arg Gly Leu Gly Ala Asp Arg Leu Leu Tyr His Phe
35 40 45

Leu Gln Leu His Cys His Pro Ala Cys Leu Val Leu Val Leu Asn Thr
50 55 60

Gln Pro Ala Glu Glu Glu Tyr Phe Ile Asn Gln Leu Lys Ile Glu Gly
65 70 75 80

Val Glu His Leu Pro Arg Arg Val Thr Asn Glu Ile Thr Ser Asn Ser
85 90 95

Arg Tyr Glu Val Tyr Thr Gln Gly Gly Val Ile Phe Ala Thr Ser Arg
100 105 110

Ile Leu Val Val Asp Phe Leu Thr Asp Arg Ile Pro Ser Asp Leu Ile
 115 120 125
 Thr Gly Ile Leu Val Tyr Arg Ala His Arg Ile Ile Glu Ser Cys Gln
 130 135 140
 Glu Ala Phe Ile Leu Arg Leu Phe Arg Gln Lys Asn Lys Arg Gly Phe
 145 150 155 160
 Ile Lys Ala Phe Thr Asp Asn Ala Val Ala Phe Asp Thr Gly Phe Cys
 165 170 175
 His Val Glu Arg Val Met Arg Asn Leu Phe Val Arg Lys Leu Tyr Leu
 180 185 190
 Trp Pro Arg Phe His Val Ala Val Asn Ser Phe Leu Glu Gln His Lys
 195 200 205
 Pro Glu Val Val Glu Ile His Val Ser Met Thr Pro Thr Met Leu Ala
 210 215 220
 Ile Gln Thr Ala Ile Leu Asp Ile Leu Asn Ala Cys Leu Lys Glu Leu
 225 230 235 240
 Lys Cys His Asn Pro Ser Leu Glu Val Glu Asp Leu Ser Leu Glu Asn
 245 250 255
 Ala Ile Gly Lys Pro Phe Asp Lys Thr Ile Arg His Tyr Leu Asp Pro
 260 265 270
 Leu Trp His Gln Leu Gly Ala Lys Thr Lys Ser Leu Val Gln Asp Leu
 275 280 285
 Lys Ile Leu Arg Thr Leu Leu Gln Tyr Leu Ser Gln Tyr Asp Cys Val
 290 295 300
 Thr Phe Leu Asn Leu Leu Glu Ser Leu Arg Ala Thr Glu Lys Ala Phe
 305 310 315 320
 Gly Gln Asn Ser Gly Trp Leu Phe Leu Asp Ser Ser Thr Ser Met Phe
 325 330 335
 Ile Asn Ala Arg Ala Arg Val Tyr His Leu Pro Asp Ala Lys Met Ser
 340 345 350
 Lys Lys Glu Lys Ile Ser Glu Lys Met Glu Ile Lys Xaa Gly Glu Glu
 355 360 365
 Thr Lys Lys Glu Leu Val Leu Glu Ser Asn Pro Lys Trp Glu Ala Leu
 370 375 380

Thr Glu Val Leu Lys Glu Ile Glu Ala Glu Asn Lys Glu Ser Glu Ala
385 390 395 400

Leu Gly Gly Pro Gly Gln Val Leu Ile Cys Ala Ser Asp Asp Arg Thr
405 410 415

Cys Ser Gln Leu Arg Asp Tyr Ile Thr Leu Gly Ala Glu Ala Phe Leu
420 425 430

Leu Arg Leu Tyr Arg Lys Thr Phe Glu Lys Asp Ser Lys Ala Glu Glu
435 440 445

Val Trp Met Lys Phe Arg Lys Glu Asp Ser Ser Lys Arg Ile Arg Lys
450 455 460

Ser His Lys Arg Pro Lys Asp Pro Gln Asn Lys Glu Arg Ala Ser Thr
465 470 475 480

Lys Glu Arg Thr Leu Lys Lys Lys Lys Arg Lys Leu Thr Leu Thr Gln
485 490 495

Met Val Gly Lys Pro Glu Glu Leu Glu Glu Glu Gly Asp Val Glu Glu
500 505 510

Gly Tyr Arg Arg Glu Ile Ser Ser Ser Pro Glu Xaa Cys Pro Glu Glu
515 520 525

Ile Lys His Glu Glu Phe Asp Val Asn Leu Ser Ser Asp Ala Ala Phe
530 535 540

Gly Ile Leu Lys Glu Pro Leu Thr Ile Ile His Pro Leu Leu Gly Cys
545 550 555 560

Ser Asp Pro Tyr Ala Leu Thr Arg Val Leu His Glu Val Glu Pro Arg
565 570 575

Tyr Val Val Leu Tyr Asp Ala Glu Leu Thr Phe Val Arg Gln Leu Glu
580 585 590

Ile Tyr Arg Ala Ser Arg Pro Gly Lys Pro Leu Arg Val Tyr Phe Leu
595 600 605

Ile Tyr Gly Gly Ser Thr Glu Glu Gln Arg Tyr Leu Thr Ala Leu Arg
610 615 620

Lys Glu Lys Glu Ala Phe Glu Lys Leu Ile Arg Glu Lys Ala Ser Met
625 630 635 640

Val Val Pro Glu Glu Arg Glu Gly Arg Asp Glu Thr Asn Leu Asp Leu
645 650 655

Val Arg Gly Thr Ala Ser Ala Asp Val Ser Thr Asp Thr Arg Lys Ala
 660 665 670
 Gly Gly Gln Glu Gln Asn Gly Thr Gln Gln Ser Ile Val Val Xaa Met
 675 680 685
 Arg Glu Phe Arg Ser Glu Leu Pro Ser Leu Ile His Arg Arg Asp Ile
 690 695 700
 Asp Ile Glu Pro Val Thr Leu Glu Val Gly Asp Tyr Ile Leu Thr Pro
 705 710 715 720
 Glu Met Cys Val Glu Arg Lys Ser Ile Ser Asp Leu Ile Gly Ser Leu
 725 730 735
 Asn Asn Gly Arg Leu Tyr Ser Gln Cys Ile Ser Met Ser Arg Tyr Tyr
 740 745 750
 Lys Arg Pro Val Leu Leu Ile Glu Phe Asp Pro Ser Lys Pro Phe Ser
 755 760 765
 Leu Thr Ser Arg Gly Ala Leu Phe Gln Glu Ile Ser Ser Asn Asp Ile
 770 775 780
 Ser Ser Lys Leu Thr Leu Leu Thr Leu His Phe Pro Arg Leu Arg Ile
 785 790 795 800
 Leu Trp Cys Pro Ser Xaa His Ala Thr Ala Glu Leu Phe Glu Glu Leu
 805 810 815
 Lys Gln Ser Lys Pro Gln Pro Asp Ala Ala Thr Ala Leu Ala Ile Thr
 820 825 830
 Ala Asp Ser Glu Thr Leu Pro Glu Ser Glu Lys Tyr Asn Pro Gly Pro
 835 840 845
 Gln Asp Phe Leu Leu Lys Met Pro Gly Val Asn Ala Lys Asn Cys Arg
 850 855 860
 Ser Leu Met His His Val Lys Asn Ile Ala Glu Leu Ala Ala Leu Ser
 865 870 875 880
 Gln Asp Glu Leu Thr Ser Ile Leu Gly Asn Ala Ala Asn Ala Lys Gln
 885 890 895
 Leu Tyr Asp Phe Ile His Thr Ser Phe Ala Glu Val Val Ser Lys Gly
 900 905 910
 Lys Gly Lys Lys
 915

<210> 1611

<211> 197

<212> PRT

<213> Homo sapiens

<400> 1611

Gly Gly Gly Pro Ala Pro Gly Asp Ile Val Phe Cys Arg Asn Gln Pro
 1 5 10 15

Lys Asp Glu Asp Ala Asp Met Met Lys Tyr Ile Glu Thr Glu Leu Lys
 20 25 30

Lys Arg Lys Gly Ile Val Glu His Glu Glu Gln Lys Val Lys Pro Lys
 35 40 45

Asn Ala Glu Asp Cys Leu Tyr Glu Leu Pro Glu Asn Ile Arg Val Ser
 50 55 60

Ser Ala Lys Lys Thr Glu Glu Met Leu Ser Asn Gln Met Leu Ser Gly
 65 70 75 80

Ile Pro Glu Val Asp Leu Gly Ile Asp Ala Lys Ile Lys Asn Ile Ile
 85 90 95

Ser Thr Glu Asp Ala Lys Ala Arg Leu Leu Ala Glu Gln Gln Asn Lys
 100 105 110

Lys Lys Asp Ser Glu Thr Ser Phe Val Pro Thr Asn Met Ala Val Asn
 115 120 125

Tyr Val Gln His Asn Arg Phe Tyr His Glu Glu Leu Asn Ala Pro Ile
 130 135 140

Arg Arg Asn Lys Glu Glu Pro Lys Ala Arg Pro Leu Arg Val Gly Asp
 145 150 155 160

Thr Glu Lys Pro Glu Pro Glu Arg Ser Pro Pro Asn Arg Lys Arg Pro
 165 170 175

Ala Asn Glu Lys Ala Thr Asp Asp Tyr His Tyr Glu Lys Phe Lys Lys
 180 185 190

Met Asn Arg Arg Tyr
 195

<210> 1612

<211> 476

<212> PRT

<213> Homo sapiens

<400> 1612

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Pro Arg Val Arg Gly Asp Val Gly Met Ala Gly Val Ala Ile Asp Thr
  1             5             10             15

Val Glu Asp Thr Lys Ile Leu Phe Asp Gly Ile Pro Leu Glu Lys Met
      20             25             30

Ser Val Ser Met Thr Met Asn Gly Ala Val Ile Pro Val Leu Ala Asn
      35             40             45

Phe Ile Val Thr Gly Glu Glu Gln Gly Val Pro Lys Glu Lys Leu Thr
      50             55             60

Gly Thr Ile Gln Asn Asp Ile Leu Lys Glu Phe Met Val Arg Asn Thr
      65             70             75             80

Tyr Ile Phe Pro Pro Glu Pro Ser Met Lys Ile Ile Ala Asp Ile Phe
      85             90             95

Glu Tyr Thr Ala Lys His Met Pro Lys Phe Asn Ser Ile Ser Ile Ser
      100            105            110

Gly Tyr His Met Gln Glu Ala Gly Ala Asp Ala Ile Leu Glu Leu Ala
      115            120            125

Tyr Thr Leu Ala Asp Gly Leu Glu Tyr Ser Arg Thr Gly Leu Gln Ala
      130            135            140

Gly Leu Thr Ile Asp Glu Phe Ala Pro Arg Leu Ser Phe Phe Trp Gly
      145            150            155            160

Ile Gly Met Asn Phe Tyr Met Glu Ile Ala Lys Met Arg Ala Gly Arg
      165            170            175

Arg Leu Trp Ala His Leu Ile Glu Lys Met Phe Gln Pro Lys Asn Ser
      180            185            190

Lys Ser Leu Leu Leu Arg Ala His Cys Gln Thr Ser Gly Trp Ser Leu
      195            200            205

Thr Glu Gln Asp Pro Tyr Asn Asn Ile Val Arg Thr Ala Ile Glu Ala
      210            215            220

Met Ala Ala Val Phe Gly Gly Thr Gln Ser Leu His Thr Asn Ser Phe
      225            230            235            240

Asp Glu Ala Leu Gly Leu Pro Thr Val Lys Ser Ala Arg Ile Ala Arg
      245            250            255

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Asn Thr Gln Ile Ile Ile Gln Glu Glu Ser Gly Ile Pro Lys Val Ala
260 265 270

Asp Pro Trp Gly Gly Ser Tyr Met Met Glu Cys Leu Thr Asn Asp Val
275 280 285

Tyr Asp Ala Ala Leu Lys Leu Ile Asn Glu Ile Glu Glu Met Gly Gly
290 295 300

Met Ala Lys Ala Val Ala Glu Gly Ile Pro Lys Leu Arg Ile Glu Glu
305 310 315 320

Cys Ala Ala Arg Arg Gln Ala Arg Ile Asp Ser Gly Ser Glu Val Ile
325 330 335

Val Gly Val Asn Lys Tyr Gln Leu Glu Lys Glu Asp Ala Val Glu Val
340 345 350

Leu Ala Ile Asp Asn Thr Ser Val Arg Asn Arg Gln Ile Glu Lys Leu
355 360 365

Lys Lys Ile Lys Ser Ser Arg Asp Gln Ala Leu Ala Glu Arg Cys Leu
370 375 380

Ala Ala Leu Thr Glu Cys Ala Ala Ser Gly Asp Gly Asn Ile Leu Ala
385 390 395 400

Leu Ala Val Asp Ala Ser Arg Ala Arg Cys Thr Val Gly Glu Ile Thr
405 410 415

Asp Ala Leu Lys Lys Val Phe Gly Glu His Lys Ala Asn Asp Arg Met
420 425 430

Val Ser Gly Ala Tyr Arg Gln Glu Phe Gly Glu Ser Lys Glu Ile Thr
435 440 445

Ser Ala Ile Lys Arg Val His Lys Phe Met Glu Arg Glu Gly Arg Ser
450 455 460

Ser Ser Ser Cys Ser Lys Asn Gly Thr Arg Trp Pro
465 470 475

<210> 1613

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (289)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1613

Gln	His	His	Arg	Ala	Ala	His	Leu	Lys	Trp	Ile	Phe	Val	Gly	Gly	Lys
1				5					10					15	

Gly	Gly	Val	Gly	Lys	Thr	Thr	Cys	Ser	Cys	Ser	Leu	Ala	Val	Gln	Leu
		20					25					30			

Ser	Lys	Gly	Arg	Glu	Ser	Val	Leu	Ile	Ile	Ser	Thr	Asp	Pro	Ala	His
	35						40					45			

Asn	Ile	Ser	Asp	Ala	Phe	Asp	Gln	Lys	Phe	Ser	Lys	Val	Pro	Thr	Lys
50						55					60				

Val	Lys	Gly	Tyr	Asp	Asn	Leu	Phe	Ala	Met	Glu	Ile	Asp	Pro	Ser	Leu
65					70					75					80

Gly	Val	Ala	Xaa	Xaa	Pro	Asp	Glu	Phe	Phe	Glu	Glu	Asp	Asn	Met	Leu
			85						90					95	

Ser	Met	Gly	Lys	Lys	Met	Met	Gln	Glu	Ala	Met	Ser	Ala	Phe	Pro	Gly
		100					105					110			

Ile	Asp	Glu	Ala	Met	Ser	Tyr	Ala	Glu	Val	Met	Arg	Leu	Val	Lys	Gly
	115						120					125			

Met	Asn	Phe	Ser	Val	Val	Val	Phe	Asp	Thr	Ala	Pro	Thr	Gly	His	Thr
	130					135					140				

Leu	Arg	Leu	Leu	Asn	Phe	Pro	Thr	Ile	Val	Glu	Arg	Gly	Leu	Gly	Arg
145				150						155				160	

Leu	Met	Gln	Ile	Lys	Asn	Gln	Ile	Ser	Pro	Phe	Ile	Ser	Gln	Met	Cys
			165					170						175	

Asn	Met	Leu	Gly	Leu	Gly	Asp	Met	Asn	Ala	Asp	Gln	Leu	Ala	Ser	Lys
		180						185						190	

Leu Glu Glu Thr Leu Pro Val Ile Arg Ser Val Ser Glu Gln Phe Lys
 195 200 205

Asp Pro Glu Gln Thr Thr Phe Ile Cys Val Cys Ile Ala Glu Phe Leu
 210 215 220

Ser Leu Tyr Glu Thr Glu Arg Leu Ile Gln Glu Leu Ala Lys Cys Lys
 225 230 235 240

Ile Asp Thr His Asn Ile Ile Val Asn Gln Leu Val Phe Pro Asp Pro
 245 250 255

Glu Lys Pro Cys Lys Met Cys Glu Ala Arg His Lys Ile Gln Ala Lys
 260 265 270

Tyr Leu Asp Gln Met Glu Asp Leu Tyr Glu Asp Phe His Ile Val Lys
 275 280 285

Xaa Pro Leu Leu Pro His Glu Val Arg Gly Ala Asp Lys Val Asn Thr
 290 295 300

Phe Ser Ala Leu Leu Leu Glu Pro Tyr Lys Pro Pro Ser Ala Gln
 305 310 315

<210> 1614

<211> 207

<212> PRT

<213> Homo sapiens

<400> 1614

His Glu Glu Arg Gly Gln Gly Arg Phe Leu Lys Met Ala Ala Leu Lys
 1 5 10 15

Ala Leu Val Ser Gly Cys Gly Arg Leu Leu Arg Gly Leu Leu Ala Gly
 20 25 30

Pro Ala Ala Thr Ser Trp Ser Arg Leu Pro Ala Arg Gly Phe Arg Glu
 35 40 45

Val Val Glu Thr Gln Glu Gly Lys Thr Thr Ile Ile Glu Gly Arg Ile
 50 55 60

Thr Ala Thr Pro Lys Glu Ser Pro Asn Pro Pro Asn Pro Ser Gly Gln
 65 70 75 80

Cys Pro Ile Cys Arg Trp Asn Leu Lys His Lys Tyr Asn Tyr Asp Asp
 85 90 95

Val Leu Leu Leu Ser Gln Phe Ile Arg Pro His Gly Gly Met Leu Pro

100	105	110
Arg Lys Ile Thr Gly Leu Cys Gln Glu Glu His Arg Lys Ile Glu Glu		
115	120	125
Cys Val Lys Met Ala His Arg Ala Gly Leu Leu Pro Asn His Arg Pro		
130	135	140
Arg Leu Pro Glu Gly Val Val Pro Lys Ser Lys Pro Gln Leu Asn Arg		
145	150	155
Tyr Leu Thr Arg Trp Ala Pro Gly Ser Val Lys Pro Ile Tyr Lys Lys		
165	170	175
Gly Pro Arg Trp Asn Arg Val Arg Met Pro Val Gly Ser Pro Leu Leu		
180	185	190
Arg Asp Asn Val Cys Tyr Ser Arg Thr Pro Trp Lys Leu Tyr His		
195	200	205

<210> 1615

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1615

Pro Thr Arg Pro Arg Val His Leu Ala Thr Val Ser Ala Ser Ala Ala			
1	5	10	15
Trp Asp Ala Leu Gly Leu Pro Val Arg Ser His Met Gln Gly Ser Thr			
20	25	30	
Arg Arg Met Gly Val Met Thr Asp Val His Arg Arg Phe Leu Gln Leu			
35	40	45	
Leu Met Thr His Gly Val Leu Glu Glu Trp Asp Val Lys Arg Leu Gln			
50	55	60	
Thr His Cys Tyr Lys Val His Asp Arg Asn Ala Thr Val Asp Lys Leu			
65	70	75	80
Glu Asp Phe Ile Asn Asn Ile Asn Ser Val Leu Glu Ser Leu Tyr Ile			
85	90	95	

Glu Ile Lys Arg Gly Val Thr Glu Asp Asp Gly Arg Pro Ile Tyr Ala
100 105 110

Leu Val Asn Leu Ala Thr Thr Ser Ile Ser Lys Met Ala Thr Asp Phe
115 120 125

Ala Glu Asn Glu Leu Asp Leu Phe Arg Lys Ala Leu Glu Leu Ile Ile
130 135 140

Asp Ser Glu Thr Gly Phe Ala Ser Ser Thr Asn Ile Leu Asn Leu Val
145 150 155 160

Asp Gln Leu Lys Gly Lys Lys Met Arg Lys Lys Glu Ala Xaa Gln Val
165 170 175

Leu Gln Lys Phe Val Gln Asn Lys Trp Leu Ile Glu Lys Glu Gly Glu
180 185 190

Phe Thr Leu His Gly Arg Ala Ile Leu Glu Met Glu Gln Tyr Ile Arg
195 200 205

Glu Thr Tyr Pro Asp Ala Val Lys Ile Cys Asn Ile Cys His Ser Leu
210 215 220

Leu Ile Gln Gly Gln Ser Cys Glu Thr Cys Gly Ile Arg Met His Leu
225 230 235 240

Pro Cys Val Ala Lys Tyr Phe Gln Ser Asn Ala Glu Pro Arg Cys Pro
245 250 255

His Cys Asn Asp Tyr Trp Pro His Glu Ile Pro Lys Val Phe Asp Pro
260 265 270

Glu Lys Glu Arg Glu Ser Gly Val Leu Lys Ser Asn Lys Lys Ser Cys
275 280 285

Gly Pro Gly Ser Ile Ser His Arg Ala Leu Leu Arg Gly Trp Leu Pro
290 295 300

<210> 1616

<211> 223

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1616

Ala Glu Xaa Leu Gly Gly Pro Gly Xaa Ala Ser Gly Gly Glu Thr Ser
1 5 10 15

Val Glu Arg Arg Arg Thr Cys Ala Phe Asp Thr Leu Glu Ala Phe Leu
20 25 30

Ile Met Asp Gly Glu Asp Ile Pro Asp Phe Ser Ser Leu Lys Glu Glu
35 40 45

Thr Ala Tyr Trp Lys Glu Leu Ser Leu Lys Tyr Lys Gln Arg Ala Thr
50 55 60

Ile Val Ser Leu Glu Asp Phe Glu Gln Arg Leu Asn Gln Ala Ile Glu
65 70 75 80

Arg Asn Ala Phe Leu Glu Ser Glu Leu Asp Glu Lys Glu Ser Leu Leu
85 90 95

Val Ser Val Gln Arg Leu Lys Asp Glu Ala Arg Asp Leu Arg Gln Glu
100 105 110

Leu Ala Val Arg Glu Arg Gln Gln Glu Val Thr Arg Lys Ser Ala Pro
115 120 125

Ser Ser Pro Thr Leu Asp Cys Glu Lys Met Asp Ser Ala Val Gln Ala
130 135 140

Ser Leu Ser Leu Pro Ala Thr Pro Val Gly Lys Gly Thr Glu Asn Thr
145 150 155 160

Phe Pro Ser Pro Lys Ala Ile Pro Asn Gly Phe Gly Thr Ser Pro Leu
165 170 175

Thr Pro Ser Ala Arg Ile Ser Ala Leu Asn Ile Val Gly Gly Ser Leu
180 185 190

Thr Glu Ser Arg Gly Phe Arg Ile Gln Ile Ser Ser Leu Gln Glu Phe

195	200	205
Cys Lys Gly Pro Ser Ile Thr Xaa Ile Leu Tyr Phe Arg Glu Cys		
210	215	220
<210> 1617		
<211> 138		
<212> PRT		
<213> Homo sapiens		
<400> 1617		
Val Lys Gln Tyr Leu Arg Thr Gly Tyr Lys Gln Tyr Phe Leu Lys Leu		
1	5	10 15
Ser Pro Ile Phe Pro Pro Met Arg Pro Phe Gln Thr Gln Ile Ser His		
20	25	30
Asn Arg Ala Arg Thr Ile Ile Thr Ser Pro Asp Ser Glu Pro Glu Cys		
35	40	45
Phe Pro Gln Asp Cys Val Ala Pro Asn Ala Leu Arg Ser Ile Val Gly		
50	55	60
Glu Ser Cys His Trp Asp Ser Thr Ser Arg Pro Gly Asp Gln Ala Ser		
65	70	75 80
Arg Ile Pro Leu Glu Thr Pro Pro Leu Phe His Tyr His Pro Ala Thr		
85	90	95
Ser Ser Ser Ala Met Pro Trp Phe Pro Leu Glu Ser Ser Gln Ser Gln		
100	105	110
Arg Arg Pro Pro Thr Thr Ser Lys Ala Ser Lys Val Leu Glu Ser Ala		
115	120	125
Pro Arg Leu Asn Arg Ala Ser Ile Ser Ser		
130	135	

<210> 1618
 <211> 388
 <212> PRT
 <213> Homo sapiens

<400> 1618
 Ala Glu Ser Thr Ala Arg Val Cys Cys Pro Ser Pro Arg Tyr Ala Gln
 1 5 10 15

Ser Arg Arg Ser Pro Ala Trp Gly Glu Gln Ser Asp His Arg Pro Gly
 20 25 30
 Ala Ala Arg Arg Asp Ala Arg Cys Ala Leu Cys Pro Arg Ala Pro Thr
 35 40 45
 Ala Pro Ala Ala Ala Ala Glu Ala Gln Arg Glu Asn Ala Pro Pro Arg
 50 55 60
 Gly Pro Gly Ala Ala Ser Asp Pro Leu Ala Thr Cys Ala Gln Pro Glu
 65 70 75 80
 Val Ser Ser Glu Arg Arg Ala Gly Gly Gln Arg Gly Val Arg Gly Pro
 85 90 95
 Pro Pro Ala Ala Arg Ala Arg Pro Leu Met Ala Ala Ile Arg Lys Lys
 100 105 110
 Leu Val Val Val Gly Asp Gly Ala Cys Gly Lys Thr Cys Leu Leu Ile
 115 120 125
 Val Phe Ser Lys Asp Glu Phe Pro Glu Val Tyr Val Pro Thr Val Phe
 130 135 140
 Glu Asn Tyr Val Ala Asp Ile Glu Val Asp Gly Lys Gln Val Glu Leu
 145 150 155 160
 Ala Leu Trp Asp Thr Ala Gly Gln Glu Asp Tyr Asp Arg Leu Arg Pro
 165 170 175
 Leu Ser Tyr Pro Asp Thr Asp Val Ile Leu Met Cys Phe Ser Val Asp
 180 185 190
 Ser Pro Asp Ser Leu Glu Asn Ile Pro Glu Lys Trp Val Pro Glu Val
 195 200 205
 Lys His Phe Cys Pro Asn Val Pro Ile Ile Leu Val Ala Asn Lys Lys
 210 215 220
 Asp Leu Arg Ser Asp Glu His Val Arg Thr Glu Leu Ala Arg Met Lys
 225 230 235 240
 Gln Glu Pro Val Arg Thr Asp Asp Gly Arg Ala Met Ala Val Arg Ile
 245 250 255
 Gln Ala Tyr Asp Tyr Leu Glu Cys Ser Ala Lys Thr Lys Glu Gly Val
 260 265 270
 Arg Glu Val Phe Glu Thr Ala Thr Arg Ala Ala Ala Glu Ala Leu Arg
 275 280 285

Leu Pro Glu Arg Leu His Gln Leu Leu Gln Gly Ala Met Arg Ala Ala
 290 295 300
 Pro Val Ala Pro Ala Pro Ala Gly Thr Ala Pro Pro Pro Gly Pro Val
 305 310 315 320
 Pro Arg Glu Pro Gly Glu Gly Glu Thr Arg Val Pro Gln Gly Pro His
 325 330 335
 Arg Pro Ala Trp His Leu Ser Ala Asp Ala Ser Gly Leu Arg Gln Asp
 340 345 350
 Leu Ala Trp Ala Pro Gly Ala Pro Ile Pro Val Ser Val Cys Val Gln
 355 360 365
 Leu Cys Cys Thr Gly Leu Gly Ser Pro Leu Ser Ala Lys Gly Pro Leu
 370 375 380
 Ser Met Leu Phe
 385

<210> 1619

<211> 184

<212> PRT

<213> Homo sapiens

<400> 1619

Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Gly Thr Arg
 1 5 10 15
 Gly Arg Thr Arg Gly Arg Glu Gly Arg Ser Leu Trp Arg Lys Met Ala
 20 25 30
 Ala Ala Trp Gly Ser Ser Leu Thr Ala Ala Thr Gln Arg Ala Val Thr
 35 40 45
 Pro Trp Pro Arg Gly Arg Leu Leu Thr Ala Ser Leu Gly Pro Gln Ala
 50 55 60
 Arg Arg Glu Ala Ser Ser Ser Ser Pro Glu Ala Gly Glu Gly Gln Ile
 65 70 75 80
 Arg Leu Thr Asp Ser Cys Val Gln Arg Leu Leu Glu Ile Thr Glu Gly
 85 90 95
 Ser Glu Phe Leu Arg Leu Gln Val Glu Gly Gly Gly Cys Ser Gly Phe
 100 105 110
 Gln Tyr Lys Phe Ser Leu Asp Thr Val Ile Asn Pro Asp Asp Arg Val

115 120 125
 Phe Glu Gln Gly Gly Ala Arg Val Val Val Asp Ser Asp Ser Leu Ala
 130 135 140
 Phe Val Lys Gly Ala Gln Val Asp Phe Ser Gln Glu Leu Ile Arg Ser
 145 150 155 160
 Ser Phe Gln Val Leu Asn Asn Pro Gln Ala Gln Gln Gly Cys Ser Cys
 165 170 175
 Gly Ser Ser Phe Ser Ile Lys Leu
 180

<210> 1620

<211> 468

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1620

Xaa Ala Pro Xaa Gly Pro Pro Ala Pro Pro Ala Leu Pro Pro Ala Ala
 1 5 10 15

Ser Pro Gly Ala Pro Ala Arg Arg Pro Gly Gly Arg Ser Glu Glu Lys
 20 25 30

Ile Ser Asp Ser Glu Gly Phe Lys Ala Asn Leu Ser Leu Leu Arg Arg
 35 40 45

Pro Gly Glu Lys Thr Tyr Thr Gln Arg Cys Arg Leu Phe Val Gly Asn
 50 55 60

Leu Pro Ala Asp Ile Thr Glu Asp Glu Phe Lys Arg Leu Phe Ala Lys
 65 70 75 80

Tyr Gly Glu Pro Gly Glu Val Phe Ile Asn Lys Gly Lys Gly Phe Gly
 85 90 95

Phe Ile Lys Leu Glu Ser Arg Ala Leu Ala Glu Ile Ala Lys Ala Glu

100	105	110
Leu Asp Asp Thr Pro Met Arg Gly Arg Gln Leu Arg Val Arg Phe Ala		
115	120	125
Thr His Ala Ala Ala Leu Ser Val Arg Asn Leu Ser Pro Tyr Val Ser		
130	135	140
Asn Glu Leu Leu Glu Glu Ala Phe Ser Gln Phe Gly Pro Ile Glu Arg		
145	150	155
Ala Val Val Ile Val Asp Asp Arg Gly Arg Ser Thr Gly Lys Gly Ile		
165	170	175
Val Glu Phe Ala Ser Lys Pro Ala Ala Arg Lys Ala Phe Glu Arg Cys		
180	185	190
Ser Glu Gly Val Phe Leu Leu Thr Thr Thr Pro Arg Pro Val Ile Val		
195	200	205
Glu Pro Leu Glu Gln Leu Asp Asp Glu Asp Gly Leu Pro Glu Lys Leu		
210	215	220
Ala Gln Lys Asn Pro Met Tyr Gln Lys Glu Arg Glu Thr Pro Pro Arg		
225	230	235
Phe Ala Gln His Gly Thr Phe Glu Tyr Glu Tyr Ser Gln Arg Trp Lys		
245	250	255
Ser Leu Asp Glu Met Glu Lys Gln Gln Arg Glu Gln Val Glu Lys Asn		
260	265	270
Met Lys Asp Ala Lys Asp Lys Leu Glu Ser Glu Met Glu Asp Ala Tyr		
275	280	285
His Glu His Gln Ala Asn Leu Leu Arg Gln Asp Leu Met Arg Arg Gln		
290	295	300
Glu Glu Leu Arg Arg Met Glu Glu Leu His Asn Gln Glu Met Gln Lys		
305	310	315
Arg Lys Glu Met Gln Leu Arg Gln Glu Glu Arg Arg Arg Arg Glu		
325	330	335
Glu Glu Met Met Ile Arg Gln Arg Glu Met Glu Glu Gln Met Arg Arg		
340	345	350
Gln Arg Glu Glu Ser Tyr Ser Arg Met Gly Tyr Met Asp Pro Arg Glu		
355	360	365
Arg Asp Met Arg Met Gly Gly Gly Gly Ala Met Asn Met Gly Asp Pro		

370 375 380
 Tyr Gly Ser Gly Gly Gln Lys Phe Pro Pro Leu Gly Gly Gly Gly Gly
 385 390 395 400
 Ile Gly Tyr Glu Ala Asn Pro Gly Val Pro Pro Ala Thr Met Ser Gly
 405 410 415
 Ser Met Met Gly Ser Asp Met Arg Thr Glu Arg Phe Gly Gln Gly Gly
 420 425 430
 Ala Gly Pro Val Gly Gly Gln Gly Pro Arg Gly Met Gly Pro Gly Thr
 435 440 445
 Pro Ala Gly Tyr Gly Arg Gly Arg Glu Glu Tyr Glu Gly Pro Asn Lys
 450 455 460
 Lys Pro Arg Phe
 465

<210> 1621
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1621
 Ala Pro Ala Pro Thr Ser Cys Ser Leu Lys Pro Cys Ile Gly His Pro
 1 5 10 15
 Val Pro Ser Ser Gly Tyr Ser Cys His Val Gly Pro Thr Leu Ser Cys
 20 25 30
 Gly Thr Lys Arg Gly Thr Gln His Gly Asn Leu Thr Pro Glu Arg Ser
 35 40 45
 Asp Val Trp Phe Ala Leu Gln Leu Asn Arg Lys Leu Arg Leu Gly Val
 50 55 60
 Gly Asn Arg Ala Ile Arg Thr Glu Lys Ile Ile Cys Arg Asp Val Ala
 65 70 75 80
 Arg Gly Tyr Glu Asn Val Pro Ile Pro Cys Val Lys Val Trp Met Gly
 85 90 95
 Ser Pro Ala Leu Arg Ile Thr Ser Thr Ser Gln Arg Thr Ala Arg Arg
 100 105 110
 Pro Pro

<210> 1622

<211> 399

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (397)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1622

Glu Val Cys His Gly Gly His Arg Gly Xaa Leu Gln Ser Trp Xaa Pro
1 5 10 15

Pro Arg Glu Ala Glu Ser Leu Gln Pro Met Thr Val Val Gly Thr Asp
20 25 30

Tyr Val Phe His Asn Asp Thr Lys Val Val Phe Leu Ser Pro Ala Val
35 40 45

Pro Glu Glu Pro Glu Ala Tyr Asn Leu Thr Val Leu Ile Glu Met Asp
50 55 60

Gly His Arg Ala Leu Leu Arg Thr Glu Ala Gly Ala Phe Glu Tyr Val
65 70 75 80

Pro Asp Pro Thr Phe Glu Asn Phe Thr Gly Gly Val Lys Lys Gln Val
85 90 95

Asn Lys Leu Ile His Ala Arg Gly Thr Asn Leu Asn Lys Ala Met Thr
100 105 110

Leu Gln Glu Ala Glu Ala Phe Val Gly Ala Glu Arg Cys Thr Met Lys
115 120 125

Thr Leu Thr Glu Thr Asp Leu Tyr Cys Glu Pro Pro Glu Val Gln Pro
130 135 140

Pro Pro Lys Arg Arg Gln Lys Arg Asp Thr Thr His Asn Leu Pro Glu
 145 150 155 160
 Phe Ile Val Lys Phe Gly Ser Arg Glu Trp Val Leu Gly Arg Val Glu
 165 170 175
 Tyr Asp Thr Arg Val Ser Asp Val Pro Leu Ser Leu Ile Leu Pro Leu
 180 185 190
 Val Ile Val Pro Met Val Val Val Ile Ala Val Ser Val Tyr Cys Tyr
 195 200 205
 Trp Arg Lys Ser Gln Gln Ala Glu Arg Glu Tyr Glu Lys Ile Lys Ser
 210 215 220
 Gln Leu Glu Gly Leu Glu Glu Ser Val Arg Asp Arg Cys Lys Lys Glu
 225 230 235 240
 Phe Thr Asp Leu Met Ile Glu Met Glu Asp Gln Thr Asn Asp Val His
 245 250 255
 Glu Ala Gly Ile Pro Val Leu Asp Tyr Lys Thr Tyr Thr Asp Arg Val
 260 265 270
 Phe Phe Leu Pro Ser Lys Asp Gly Asp Lys Asp Val Met Ile Thr Gly
 275 280 285
 Lys Leu Asp Ile Pro Glu Pro Arg Arg Pro Val Val Glu Gln Ala Leu
 290 295 300
 Tyr Gln Phe Ser Asn Leu Leu Asn Ser Lys Ser Phe Leu Ile Asn Phe
 305 310 315 320
 Ile His Thr Leu Glu Asn Gln Arg Glu Phe Ser Ala Arg Ala Lys Val
 325 330 335
 Tyr Phe Ala Ser Leu Leu Thr Val Ala Leu His Gly Lys Leu Glu Tyr
 340 345 350
 Tyr Thr Asp Ile Met His Thr Leu Phe Leu Glu Leu Leu Glu Gln Tyr
 355 360 365
 Val Val Ala Lys Asn Pro Lys Leu Met Leu Arg Arg Ser Glu Thr Val
 370 375 380
 Val Glu Arg Met Leu Ser Asn Trp Met Ser Ile Leu Xaa Pro Ile
 385 390 395

<210> 1623

<211> 189
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1623

Ile Tyr Asp Phe Arg Thr Gly Met Arg Leu Lys Lys Glu Glu Lys Ser
1 5 10 15

Arg Gln Glu Leu Glu Lys Leu Lys Arg Lys Leu Glu Gly Asp Ala Ser
20 25 30

Asp Phe His Glu Gln Ile Ala Asp Leu Gln Ala Gln Ile Ala Glu Leu
35 40 45

Lys Met Gln Leu Ala Lys Lys Glu Glu Glu Leu Gln Xaa Ala Leu Ala
50 55 60

Arg Leu Asp Asp Glu Ile Leu Gln Lys Asn Asn Ala Leu Lys Lys Ile
65 70 75 80

Arg Glu Leu Glu Gly His Ile Ser Asp Leu Gln Glu Asp Leu Asp Ser
85 90 95

Glu Arg Ala Ala Arg Asn Lys Ala Glu Lys Gln Lys Arg Asp Leu Gly
100 105 110

Glu Glu Leu Glu Ala Leu Lys Thr Glu Leu Glu Asp Thr Leu Asp Ser
115 120 125

Thr Ala Thr Gln Gln Glu Leu Arg Ala Lys Arg Glu Gln Glu Val Thr
130 135 140

Val Leu Lys Lys Ala Leu Asp Glu Glu Xaa Arg Ser His Glu Ala Gln
145 150 155 160

Val Gln Glu Met Arg Gln Lys His Ala Gln Ala Val Glu Glu Leu Lys
165 170 175

Gln Arg Ala Gly His Arg Ala His Thr Gly Pro Glu Glu
180 185

<210> 1624

<211> 276

<212> PRT

<213> Homo sapiens

<400> 1624

Leu Ile Ser Pro Val Trp Gly Asn Ile Gln Arg Ser Arg Ser Val Pro
 1 5 10 15

Leu Phe Pro Ser Gly Leu Val Leu Gly Gly Ile Trp Ala Arg Gly Pro
 20 25 30

Leu Leu Ala Leu Leu Ala Ser Phe Asn Ile Ile Ser Val Leu Asn Ala
 35 40 45

Glu Cys Tyr Leu Lys Gln Ile Leu His Pro Thr Ser His Phe Thr Val
 50 55 60

Ser Glu Thr Pro Pro Leu Ser Gly Asn Asp Thr Asp Ser Leu Ser Cys
 65 70 75 80

Asp Ser Gly Ser Ser Ala Thr Ser Thr Pro Cys Val Ser Arg Leu Val
 85 90 95

Thr Gly His His Leu Trp Ala Ser Lys Asn Gly Arg His Val Leu Gly
 100 105 110

Leu Ile Glu Asp Tyr Glu Ala Leu Leu Lys Gln Ile Ser Gln Gly Gln
 115 120 125

Arg Leu Leu Ala Glu Met Asp Ile Gln Thr Gln Glu Ala Pro Ser Ser
 130 135 140

Thr Ser Gln Glu Leu Gly Thr Lys Gly Pro His Pro Ala Pro Leu Ser
 145 150 155 160

Lys Phe Val Ser Ser Val Ser Thr Ala Lys Leu Thr Leu Glu Glu Ala
 165 170 175

Tyr Arg Arg Leu Lys Leu Leu Trp Arg Val Ser Leu Pro Glu Asp Gly
 180 185 190

Gln Cys Pro Leu His Cys Glu Gln Ile Gly Glu Met Lys Ala Glu Val
 195 200 205

Thr Lys Leu His Lys Lys Leu Phe Glu Gln Glu Lys Lys Leu Gln Asn
 210 215 220

Thr Met Lys Leu Leu Gln Leu Ser Lys Arg Gln Glu Lys Val Ile Phe

225 230 235 240
 Asp Gln Leu Val Val Thr His Lys Ile Leu Arg Lys Ala Arg Gly Asn
 245 250 255
 Leu Glu Leu Arg Pro Gly Gly Ala His Pro Gly Thr Cys Ser Pro Ser
 260 265 270
 Arg Pro Gly Ser
 275

<210> 1625
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 1625
 Gln Ser Ala Val Gly Asn Thr Ala Thr Thr Leu Pro Trp Gln Gly Pro
 1 5 10 15
 Glu Ser Ile Ser Gly Gly Ala Ala His Val Cys Met Cys Cys Val Ser
 20 25 30
 Glu His Thr Arg Val His Thr His Thr His Val His Thr His Ala Leu
 35 40 45
 Ser Pro Leu Arg Gly Leu Glu Val Trp Leu Ser Pro Trp Gly Lys Val
 50 55 60
 Ser Ser Phe Ile Ser Leu Leu Gln Val Gly Val Pro Gly Val Arg Cys
 65 70 75 80
 Arg Gly His Ile Ala Gly Cys Pro Leu Phe Val Ala Pro Ile Lys Gly
 85 90 95
 Pro His Leu Val Asp Thr Trp Leu Ser Val Trp Ser Leu Pro Gln Pro
 100 105 110
 Val Leu Val Thr Ile Thr Gly Leu Ala Phe Val Thr Met Met Thr Pro
 115 120 125
 Ala Cys Leu Ile Phe
 130

<210> 1626
 <211> 677
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (339)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (538)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (544)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1626

Ser	Ser	Gly	Met	Ala	Leu	Ala	Val	Ala	Ala	Xaa	Ala	Glu	Ala	Gln	Ala
1				5					10					15	
Ala	Arg	Pro	Gln	Trp	Arg	Leu	Glu	Pro	Glu	Arg	Arg	Arg	Arg	Arg	His
			20					25						30	
Pro	Gly	Glu	Phe	Lys	Met	Ala	Ala	Gly	Gly	Thr	Gly	Gly	Leu	Arg	Glu
		35						40					45		
Glu	Gln	Arg	Tyr	Gly	Leu	Ser	Cys	Gly	Arg	Leu	Gly	Gln	Asp	Asn	Ile
		50				55					60				
Thr	Val	Leu	His	Val	Lys	Leu	Thr	Glu	Thr	Ala	Ile	Arg	Ala	Leu	Glu
		65				70				75					80
Thr	Tyr	Gln	Ser	His	Lys	Asn	Leu	Ile	Pro	Phe	Arg	Pro	Ser	Ile	Gln
				85					90					95	
Phe	Gln	Gly	Leu	His	Gly	Leu	Val	Lys	Ile	Pro	Lys	Asn	Asp	Pro	Leu
			100					105					110		
Asn	Glu	Val	His	Asn	Phe	Asn	Phe	Tyr	Leu	Ser	Asn	Val	Gly	Lys	Asp
			115				120					125			
Asn	Pro	Gln	Gly	Ser	Phe	Asp	Cys	Ile	Gln	Gln	Thr	Phe	Ser	Ser	Ser
		130					135				140				
Gly	Ala	Ser	Gln	Leu	Asn	Cys	Leu	Gly	Phe	Ile	Gln	Asp	Lys	Ile	Thr

145	150	155	160
Val Cys Ala Thr Asn Asp Ser Tyr Gln Met Thr Arg Glu Arg Met Thr	165	170	175
Gln Ala Glu Glu Glu Ser Arg Asn Arg Ser Thr Lys Val Ile Lys Pro	180	185	190
Gly Gly Pro Tyr Val Gly Lys Arg Val Gln Ile Arg Lys Ala Pro Gln	195	200	205
Ala Val Ser Asp Thr Val Pro Glu Arg Lys Arg Ser Thr Pro Met Asn	210	215	220
Pro Ala Asn Thr Ile Arg Lys Thr His Ser Ser Ser Thr Ile Ser Gln	225	230	235
Arg Pro Tyr Arg Asp Arg Val Ile His Leu Leu Ala Leu Lys Ala Tyr	245	250	255
Lys Lys Pro Glu Leu Leu Ala Arg Leu Gln Lys Asp Gly Val Asn Gln	260	265	270
Lys Asp Lys Asn Ser Leu Gly Ala Ile Leu Gln Gln Val Ala Asn Leu	275	280	285
Asn Ser Lys Asp Leu Ser Tyr Thr Leu Lys Asp Tyr Val Phe Lys Glu	290	295	300
Leu Gln Arg Asp Trp Pro Gly Tyr Ser Glu Ile Asp Arg Arg Ser Leu	305	310	315
Glu Ser Val Leu Ser Arg Lys Leu Asn Pro Ser Gln Asn Ala Thr Gly	325	330	335
Thr Ser Xaa Ser Glu Ser Pro Val Cys Ser Ser Arg Asp Ala Val Ser	340	345	350
Ser Pro Gln Lys Arg Leu Leu Asp Ser Glu Phe Ile Asp Pro Leu Met	355	360	365
Asn Lys Lys Ala Arg Ile Ser His Leu Thr Asn Arg Val Pro Pro Thr	370	375	380
Leu Asn Gly His Leu Asn Pro Thr Ser Glu Lys Ser Ala Ala Gly Leu	385	390	395
Pro Leu Pro Pro Ala Ala Ala Ile Pro Thr Pro Pro Pro Leu Pro	405	410	415
Ser Thr Tyr Leu Pro Ile Ser His Pro Pro Gln Ile Val Asn Ser Asn			

420	425	430
Ser Asn Ser Pro Ser Thr Pro Glu Gly Arg Gly Thr Gln Asp Leu Pro		
435	440	445
Val Asp Ser Phe Ser Gln Asn Asp Ser Ile Tyr Glu Asp Gln Gln Asp		
450	455	460
Lys Tyr Thr Ser Arg Thr Ser Leu Glu Thr Leu Pro Pro Gly Ser Val		
465	470	475
		480
Leu Leu Lys Cys Pro Lys Pro Met Glu Glu Asn His Ser Met Ser His		
485	490	495
Lys Lys Ser Lys Lys Lys Ser Lys Lys His Lys Glu Lys Asp Gln Ile		
500	505	510
Lys Lys His Asp Ile Glu Thr Ile Glu Glu Lys Glu Glu Asp Leu Lys		
515	520	525
Arg Glu Glu Glu Ile Ala Lys Leu Asn Xaa Ser Ser Pro Asn Ser Xaa		
530	535	540
Gly Gly Val Lys Glu Asp Cys Thr Ala Ser Met Glu Pro Ser Ala Ile		
545	550	555
		560
Glu Leu Pro Asp Tyr Leu Ile Lys Tyr Ile Ala Ile Val Ser Tyr Glu		
565	570	575
Gln Arg Gln Asn Tyr Lys Asp Asp Phe Asn Ala Glu Tyr Asp Glu Tyr		
580	585	590
Arg Ala Leu His Ala Arg Met Glu Thr Val Ala Arg Arg Phe Ile Lys		
595	600	605
Leu Asp Ala Gln Arg Lys Arg Leu Ser Pro Gly Ser Lys Glu Tyr Gln		
610	615	620
Asn Val His Glu Glu Val Leu Gln Glu Tyr Gln Lys Ile Lys Gln Ser		
625	630	635
		640
Ser Pro Asn Tyr His Glu Glu Lys Tyr Arg Cys Glu Tyr Leu His Asn		
645	650	655
Lys Leu Ala His Ile Lys Arg Leu Ile Gly Glu Phe Asp Gln Gln Gln		
660	665	670
Ala Glu Ser Trp Ser		
675		

<210> 1627

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1627

Gly Pro Trp Gly Gly Phe Glu Leu Ser Arg Leu Cys Pro Tyr Arg Leu
1 5 10 15

Pro Arg His Thr Arg Ser Val Phe Pro Leu Ser Pro Pro Ser Arg Ala
20 25 30

Gly Pro Ser Gly Ile Glu Gly Ala Gly Ser Pro Arg Thr Arg Ala Gln
35 40 45

Lys Ser Pro Thr Gly Ser Cys Ile Phe Xaa Arg Thr Ile Pro Gly Ala
50 55 60

Leu Arg Gly Val Ser Gly Glu Thr Gly His Arg Gln Ser His Gly Pro
65 70 75 80

Pro Pro Lys Ala Gln Ala Pro Pro Ala Pro Pro His Pro Ser Ser Leu
85 90 95

Thr His Ala Ala Ser Pro Pro Pro Cys Arg Cys Xaa Gly Gln Ser Pro
100 105 110

Val Arg Pro Lys Thr Gly Leu Val Pro Gly Xaa Ala
115 120

<210> 1628

<211> 277

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1628

Thr	His	Val	Val	Arg	His	Ala	Tyr	Arg	Ser	Tyr	Phe	Thr	Phe	Ile	Gly
1				5					10					15	
Arg	Val	Ala	Gly	Leu	Ala	Val	Phe	His	Gly	Lys	Leu	Leu	Asp	Gly	Phe
			20					25					30		
Phe	Ile	Arg	Pro	Phe	Tyr	Lys	Met	Met	Leu	Gly	Lys	Gln	Ile	Thr	Leu
		35					40					45			
Asn	Asp	Met	Glu	Ser	Val	Asp	Ser	Glu	Tyr	Tyr	Asn	Ser	Leu	Lys	Trp
	50					55					60				
Ile	Leu	Glu	Asn	Asp	Pro	Thr	Glu	Leu	Asp	Leu	Met	Phe	Cys	Ile	Asp
65					70					75					80
Glu	Glu	Asn	Phe	Gly	Gln	Thr	Tyr	Gln	Val	Asp	Leu	Lys	Pro	Asn	Gly
				85					90					95	
Ser	Glu	Ile	Met	Val	Thr	Asn	Glu	Asn	Lys	Arg	Glu	Tyr	Ile	Asp	Leu
			100					105					110		
Val	Ile	Gln	Trp	Arg	Phe	Val	Asn	Arg	Val	Gln	Lys	Gln	Met	Asn	Ala
		115					120					125			
Phe	Leu	Glu	Gly	Phe	Thr	Glu	Leu	Leu	Pro	Ile	Asp	Leu	Ile	Lys	Ile
	130					135					140				
Phe	Asp	Glu	Asn	Glu	Leu	Glu	Leu	Leu	Met	Cys	Gly	Leu	Gly	Asp	Val
145					150					155					160
Asp	Val	Asn	Asp	Trp	Arg	Gln	His	Ser	Ile	Tyr	Lys	Asn	Gly	Tyr	Xaa
				165					170					175	
Pro	Asn	His	Pro	Val	Ile	Gln	Trp	Phe	Trp	Lys	Ala	Val	Leu	Leu	Met
			180					185					190		
Asp	Ala	Glu	Lys	Arg	Ile	Arg	Leu	Leu	Gln	Phe	Val	Thr	Gly	Thr	Ser
	195						200					205			
Arg	Val	Pro	Met	Asn	Gly	Phe	Ala	Glu	Leu	Tyr	Gly	Ser	Asn	Gly	Pro
	210					215					220				
Gln	Leu	Phe	Thr	Ile	Glu	Gln	Trp	Gly	Ser	Pro	Glu	Lys	Leu	Pro	Arg

225 230 235 240
 Ala His Thr Cys Phe Asn Arg Leu Asp Leu Pro Pro Tyr Glu Thr Phe
 245 250 255
 Glu Asp Leu Arg Glu Lys Leu Leu Met Ala Val Glu Asn Ala Gln Gly
 260 265 270
 Phe Glu Gly Val Asp
 275

<210> 1629

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1629

Gly Ala Val Gly Gly Arg Xaa Gly Gly Arg Tyr Ala Gly Arg His Val
 1 5 10 15
 Ser Arg Val Arg Ala Leu Tyr Lys Arg Val Leu Gln Leu His Arg Val
 20 25 30
 Leu Pro Pro Asp Leu Lys Ser Leu Gly Asp Gln Tyr Val Lys Asp Glu
 35 40 45
 Phe Arg Arg His Lys Thr Val Gly Ser Asp Glu Ala Gln Arg Phe Leu
 50 55 60
 Gln Glu Trp Glu Val Tyr Ala Thr Ala Leu Leu Gln Gln Ala Asn Glu
 65 70 75 80
 Asn Arg Gln Asn Ser Thr Gly Lys Ala Cys Phe Gly Thr Phe Leu Pro
 85 90 95
 Glu Glu Lys Leu Asn Asp Phe Arg Asp Glu Gln Ile Gly Gln Leu Gln
 100 105 110
 Glu Leu Met Gln Glu Ala Thr Lys Pro Asn Arg Gln Phe Ser Ile Ser
 115 120 125
 Glu Ser Met Lys Pro Lys Phe
 130 135

<210> 1630
<211> 233
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (222)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (223)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (227)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1630
Met Cys Pro Ser Cys Ser Pro Cys Gly Met Asp Trp Val Val Glu Thr
1 5 10 15
Met Pro Gln Gly Val Cys Gly Met Ser Pro Ser Val Trp Ser Val Xaa
20 25 30
Xaa Glu Thr Val Arg Gly Leu Leu Leu His His Pro Thr Leu Pro Asn
35 40 45

Pro Tyr Thr Met Ala Val Ala Ala Arg Val Thr Ala Ala Thr Thr Val
 50 55 60
 Thr His Ile Thr Ala Phe Asp Pro Asp Ser Thr Gly Gln Gln Val Trp
 65 70 75 80
 Gln Asp Leu Leu Gln Asp Gly Gln Leu Asp Ser Pro Thr Gly Gln Ser
 85 90 95
 Thr Pro Thr Gln Lys Gly Val Gly Ile Ala Gly Ala Val Cys Val Ser
 100 105 110
 Ser Lys Leu Arg Pro Arg Gly Gln Cys Arg Leu Glu Phe Ser Leu Ala
 115 120 125
 Trp Asp Met Pro Arg Ile Met Phe Gly Ala Lys Gly Gln Val His Tyr
 130 135 140
 Arg Arg Tyr Thr Arg Phe Phe Gly Gln Asp Gly Asp Ala Ala Pro Ala
 145 150 155 160
 Leu Ser His Tyr Ala Leu Cys Arg Tyr Ala Glu Trp Glu Glu Arg Ile
 165 170 175
 Ser Ala Trp Gln Ser Pro Val Leu Asp Asp Arg Ser Leu Pro Ala Trp
 180 185 190
 Tyr Lys Xaa Ala Leu Phe Asn Glu Leu Tyr Phe Leu Ala Asp Gly Gly
 195 200 205
 Thr Val Trp Leu Glu Val Leu Glu Asp Ile Gln Asp Lys Xaa Xaa Phe
 210 215 220
 Tyr Pro Xaa Arg Gly Gln Xaa Ala Tyr
 225 230

<210> 1631

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1631

Trp Gly Pro Arg Leu Pro Pro Pro Xaa Lys Lys Ala Leu Leu Ala Leu
1 5 10 15

Lys Lys Gln Ser Ser Ser Thr Thr Ser Gln Gly Gly Val Lys Arg
20 25 30

Ser Leu Ser Glu Gln Pro Val Met Asp Thr Ala Thr Ala Thr Glu Gln
35 40 45

Ala Lys Gln Leu Val Lys Ser Gly Ala Ile Ser Ala Ile Lys Ala Glu
50 55 60

Thr Lys Asn Ser Gly Phe Lys Arg Ser Arg Thr Leu Glu Gly Lys Leu
65 70 75 80

Lys Asp Pro Glu Lys Gly Pro Val Pro Thr Phe Gln Pro Phe Gln Arg
85 90 95

Ser Ile Ser Ala Asp Asp Asp Leu Gln Glu Ser Ser Arg Arg Pro Gln
100 105 110

Arg Lys Ser Leu Tyr Xaa Ser Ser Leu Ala Val Gln Asn Ser Pro Lys
115 120 125

Gly Cys His Arg Asp Lys Arg Thr Gln Ile Val Tyr Ser Asp Asp Val
130 135 140

Tyr Lys Glu Asn Leu Val Asp Gly Phe
145 150

<210> 1632

<211> 224

<212> PRT

<213> Homo sapiens

<400> 1632

Pro Thr Arg Cys Gly Ala Ser Gly Ser Arg Pro Pro Ser Gly Ser Asp
1 5 10 15

Pro Ala Asn Gly Phe Gly Tyr Ile Phe Met Leu Gly Phe Ile Thr Arg
20 25 30

Pro Pro His Arg Phe Leu Ser Leu Leu Cys Pro Gly Leu Arg Ile Pro
35 40 45

Gln Leu Ser Val Leu Cys Ala Gln Pro Arg Pro Arg Ala Met Ala Ile
 50 55 60
 Ser Ser Ser Ser Cys Glu Leu Pro Leu Val Ala Val Cys Gln Val Thr
 65 70 75 80
 Ser Thr Pro Asp Lys Gln Gln Asn Phe Lys Thr Cys Ala Glu Leu Val
 85 90 95
 Arg Glu Ala Ala Arg Leu Gly Ala Cys Leu Ala Phe Leu Pro Glu Ala
 100 105 110
 Phe Asp Phe Ile Ala Arg Asp Pro Ala Glu Thr Leu His Leu Ser Glu
 115 120 125
 Pro Leu Gly Gly Lys Leu Leu Glu Glu Tyr Thr Gln Leu Ala Arg Glu
 130 135 140
 Cys Gly Leu Trp Leu Ser Leu Gly Gly Phe His Glu Arg Gly Gln Asp
 145 150 155 160
 Trp Glu Gln Thr Gln Lys Ile Tyr Asn Cys His Val Leu Leu Asn Ser
 165 170 175
 Lys Gly Ala Val Val Ala Thr Tyr Arg Lys Thr His Leu Cys Asp Val
 180 185 190
 Glu Ile Pro Gly Gln Gly Leu Cys Val Lys Ala Thr Leu Pro Cys Leu
 195 200 205
 Gly Pro Val Leu Ser His Leu Ser Ala His Gln Gln Ala Arg Leu Val
 210 215 220

<210> 1633

<211> 668

<212> PRT

<213> Homo sapiens

<400> 1633

Thr Ile Asn Gly Val Ile Leu Ile Ser Val Phe Phe Ser Phe Phe Phe
 1 5 10 15
 Leu His Pro Met Leu Ser Val Val Val Cys Val Val Gly Leu Ser Pro
 20 25 30
 Gly Gln Tyr Phe Tyr Phe Gln Glu Val Phe Pro Val Leu Ala Ala Lys

35	40	45
His Cys Ile Met Gln Ala Asn Ala Glu Tyr His Gln Ser Ile Leu Ala		
50	55	60
Lys Gln Gln Lys Lys Phe Gly Glu Glu Ile Ala Arg Leu Gln His Ala		
65	70	75 80
Ala Glu Leu Ile Lys Thr Val Ala Ser Arg Tyr Asp Glu Tyr Val Asn		
	85	90 95
Val Lys Asp Phe Ser Asp Lys Ile Asn Arg Ala Leu Ala Ala Lys		
	100	105 110
Lys Asp Asn Asp Phe Ile Tyr His Asp Arg Val Pro Asp Leu Lys Asp		
	115	120 125
Leu Asp Pro Ile Gly Lys Ala Thr Leu Val Lys Ser Thr Pro Val Asn		
	130	135 140
Val Pro Ile Ser Gln Lys Phe Thr Asp Leu Phe Glu Lys Met Val Pro		
145	150	155 160
Val Ser Val Gln Gln Ser Leu Ala Ala Tyr Asn Gln Arg Lys Ala Asp		
	165	170 175
Leu Val Asn Arg Ser Ile Ala Gln Met Arg Glu Ala Thr Thr Leu Ala		
	180	185 190
Asn Gly Val Leu Ala Ser Leu Asn Leu Pro Ala Ala Ile Glu Asp Val		
	195	200 205
Ser Gly Asp Thr Val Pro Gln Ser Ile Leu Thr Lys Ser Arg Ser Val		
	210	215 220
Ile Glu Gln Gly Gly Ile Gln Thr Val Asp Gln Leu Ile Lys Glu Leu		
225	230	235 240
Pro Glu Leu Leu Gln Arg Asn Arg Glu Ile Leu Asp Glu Ser Leu Arg		
	245	250 255
Leu Leu Asp Glu Glu Glu Ala Thr Asp Asn Asp Leu Arg Ala Lys Phe		
	260	265 270
Lys Glu Arg Trp Gln Arg Thr Pro Ser Asn Glu Leu Tyr Lys Pro Leu		
	275	280 285
Arg Ala Glu Gly Thr Asn Phe Arg Thr Val Leu Asp Lys Ala Val Gln		
	290	295 300
Ala Asp Gly Gln Val Lys Glu Cys Tyr Gln Ser His Arg Asp Thr Ile		

305		310		315		320
Val Leu Leu Cys Lys Pro Glu Pro Glu Leu Asn Ala Ala Ile Pro Ser						
	325			330		335
Ala Asn Pro Ala Lys Thr Met Gln Gly Ser Glu Val Val Asn Val Leu						
	340			345		350
Lys Ser Leu Leu Ser Asn Leu Asp Glu Val Lys Lys Glu Arg Glu Gly						
	355			360		365
Leu Glu Asn Asp Leu Lys Ser Val Asn Phe Asp Met Thr Ser Lys Phe						
	370			375		380
Leu Thr Ala Leu Ala Gln Asp Gly Val Ile Asn Glu Glu Ala Leu Ser						
385		390		395		400
Val Thr Glu Leu Asp Arg Val Tyr Gly Gly Leu Thr Thr Lys Val Gln						
	405			410		415
Glu Ser Leu Lys Lys Gln Glu Gly Leu Leu Lys Asn Ile Gln Val Ser						
	420			425		430
His Gln Glu Phe Ser Lys Met Lys Gln Ser Asn Asn Glu Ala Asn Leu						
	435			440		445
Arg Glu Glu Val Leu Lys Asn Leu Ala Thr Ala Tyr Asp Asn Phe Val						
	450			455		460
Glu Leu Val Ala Asn Leu Lys Glu Gly Thr Lys Phe Tyr Asn Glu Leu						
465		470		475		480
Thr Glu Ile Leu Val Arg Phe Gln Asn Lys Cys Ser Asp Ile Val Phe						
	485			490		495
Ala Arg Lys Thr Glu Arg Asp Glu Leu Leu Lys Asp Leu Gln Gln Ser						
	500			505		510
Ile Ala Arg Glu Pro Ser Ala Pro Ser Ile Pro Thr Pro Ala Tyr Gln						
	515			520		525
Ser Ser Pro Ala Gly Gly His Ala Pro Thr Pro Pro Thr Pro Ala Pro						
	530			535		540
Arg Thr Met Pro Pro Thr Lys Pro Gln Pro Pro Ala Arg Pro Pro Pro						
545		550		555		560
Pro Val Leu Pro Ala Asn Arg Ala Pro Ser Ala Thr Ala Pro Ser Pro						
	565			570		575
Val Gly Ala Gly Thr Ala Ala Pro Ala Pro Ser Gln Thr Pro Gly Ser						

580	585	590
Ala Pro Pro Pro Gln Ala Gln Gly Pro Pro Tyr Pro Thr Tyr Pro Gly		
595	600	605
Tyr Pro Gly Tyr Cys Gln Met Pro Met Pro Met Gly Tyr Asn Pro Tyr		
610	615	620
Ala Tyr Gly Gln Tyr Asn Met Pro Tyr Pro Pro Val Tyr His Gln Ser		
625	630	635
Pro Gly Gln Ala Pro Tyr Pro Gly Pro Gln Gln Pro Ser Tyr Pro Phe		
645	650	655
Pro Gln Pro Pro Gln Gln Ser Tyr Tyr Pro Gln Gln		
660	665	

<210> 1634

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1634

Gly	Glu	Ala	Ala	Lys	Met	Ser	Ser	Glu	Pro	Pro	Pro	Tyr	Pro	Gly
1				5					10				15	

Gly	Pro	Thr	Ala	Pro	Leu	Leu	Glu	Glu	Lys	Ser	Gly	Ala	Pro	Pro	Thr
			20				25					30			

Pro Gly Arg Ser Ser Pro Ala Val Met Gln Pro Pro Pro Gly Met Pro
 35 40 45
 Leu Pro Pro Ala Asp Ile Gly Pro Pro Pro Tyr Glu Pro Pro Gly Xaa
 50 55 60
 Pro Met Pro Gln Pro Gly Phe Ile Pro Pro Xaa Met Ser Xaa Asp Gly
 65 70 75 80
 Xaa Tyr Met Pro Pro Gly Phe Leu Pro Phe Phe Arg Gly Pro His Pro
 85 90 95
 Pro Leu Gly

<210> 1635
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1635
 Gly Glu Ala Ala Phe Cys Pro Ser Pro His Ser His Leu Ile Tyr Leu
 1 5 10 15
 Ile Gln Ser Gln Leu Leu Lys Phe Gly Lys Asp Gln Ile Ala Leu Gln
 20 25 30
 Phe Phe Ser Leu Cys Ser Ile Leu Lys Ser Trp Lys Ile Leu Trp Asn
 35 40 45
 Ser Ser Val Tyr Arg Ala Gln Val Lys Ala Leu Ser Lys Val Tyr Leu
 50 55 60
 Phe Ile Tyr Tyr Pro Lys Asn Ala Leu Pro
 65 70

<210> 1636
 <211> 67
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1636

Arg His Arg Ser Val Ser Thr Pro Arg Ala Gly Gly Ile Val Trp Phe
1 5 10 15
His Glu Gly Leu Lys Ser Val Ile Pro Lys Val Gly Leu Gln Ala Ala
20 25 30
Ala Pro Ser Ile Cys Val Phe Leu Ser Gly Thr Val Gly Leu Tyr Xaa
35 40 45
Arg Leu Thr Cys Phe Gly Ser Arg Gly Ile Ile Leu Gly Phe Gly Lys
50 55 60
Thr His Phe
65

<210> 1637

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1637

Thr Phe Ile Tyr Val Gly Leu Tyr Leu Thr Ile Cys Asn Phe Lys Val
1 5 10 15
Met Leu Gly Gln Xaa Asn Val Ser Ala Ser Arg Ile Ala Ile Lys Tyr
20 25 30
His Thr Lys Phe Gly Gly Arg Thr Asp Leu Cys Tyr Lys Glu Met Glu
35 40 45
Lys Ser Ser Leu Cys His Gly Asp Glu Lys Pro Ala Ser His Ser Asn
50 55 60

<210> 1638

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1638

Gln Arg Gly Asp Ser Ala Asp Thr Ala Ser Leu Arg Phe Asn Thr Pro
 1 5 10 15

Ser Phe Asp Leu Ser Cys Pro His Tyr Pro Arg Lys Ile Gln Ser Ser
 20 25 30

Phe Gln Ser Ile Leu Ile Asn Pro Leu Asp Pro Lys Phe Arg Glu Val
 35 40 45

Pro Leu Pro Ser Ser Leu Leu Pro Gly Pro Thr Glu Glu His Pro Thr
 50 55 60

Thr Leu His Gln Leu Leu Lys Thr His Lys Gly Lys Ile Pro Thr Gly
 65 70 75 80

Pro Cys Gln Glu Val Val Glu Leu Pro Xaa Arg Phe His
 85 90

<210> 1639

<211> 222

<212> PRT

<213> Homo sapiens

<400> 1639

His Glu Leu Asn Cys Lys Asp Ala Val Ser Arg Lys Arg Ser His Ser
 1 5 10 15

Ala Ser Glu Lys Ser Gly Thr Gly Thr Ser Ile Ser Lys Arg Leu Asn
 20 25 30

Met Asn Pro Gln Ile Arg Asn Pro Met Lys Ala Met Tyr Pro Gly Thr
 35 40 45

Phe Tyr Phe Gln Phe Lys Asn Leu Trp Glu Ala Asn Asp Arg Asn Glu
 50 55 60

Thr Trp Leu Cys Phe Thr Val Glu Gly Ile Lys Arg Arg Ser Val Val
 65 70 75 80

Ser Trp Lys Thr Gly Val Phe Arg Asn Gln Val Asp Ser Glu Thr His
 85 90 95

Cys His Ala Glu Arg Cys Phe Leu Ser Trp Phe Cys Asp Asp Ile Leu
 100 105 110

Ser Pro Asn Thr Lys Tyr Gln Val Thr Trp Tyr Thr Ser Trp Ser Pro
 115 120 125

Cys Pro Asp Cys Ala Gly Glu Val Ala Glu Phe Leu Ala Arg His Ser
 130 135 140

Asn Val Asn Leu Thr Ile Phe Thr Ala Arg Leu Tyr Tyr Phe Gln Tyr
 145 150 155 160

Pro Cys Tyr Gln Glu Gly Leu Arg Ser Leu Ser Gln Glu Gly Val Ala
 165 170 175

Val Glu Ile Met Asp Tyr Glu Asp Phe Lys Tyr Cys Trp Glu Asn Phe
 180 185 190

Val Tyr Asn Asp Asn Glu Pro Phe Lys Pro Trp Lys Gly Leu Lys Thr
 195 200 205

Asn Phe Arg Leu Leu Lys Arg Arg Leu Arg Glu Ser Leu Gln
 210 215 220

<210> 1640

<211> 436

<212> PRT

<213> Homo sapiens

<400> 1640

Gly Leu Lys Arg Val Ser Ala Thr Ala Ala His Arg Asn Ala Leu Gln
 1 5 10 15

Asn Pro Lys Gln Gly Gly Thr Gln Leu Lys Thr Glu Lys Ile His Met
 20 25 30

Phe Leu Leu Ala Pro Val Ala Thr Gly Ile Asn Ser His Asn Asp Arg
 35 40 45

Gly Arg Gly Ile Gln Gly Thr Ile Asn Glu Gln Cys Ala Ser Ser Leu
 50 55 60

Lys Ile Arg Ala Ser His Gly Thr Lys Met Met Thr Pro Glu Val Leu
 65 70 75 80

Ala Glu Ala Tyr Gly Lys Lys Glu Trp Lys His Phe Leu Ser Asp Thr
 85 90 95

Gly Met Ala Cys Arg Ser Gly Lys Tyr Tyr Phe Tyr Asp Asn Tyr Phe
 100 105 110

Asp Leu Pro Gly Ala Leu Leu Cys Ala Arg Val Val Asp Tyr Leu Thr
 115 120 125
 Lys Leu Asn Asn Gly Gln Lys Thr Phe Asp Phe Trp Lys Asp Ile Val
 130 135 140
 Ala Ala Ile Gln His Asn Tyr Lys Met Ser Ala Phe Lys Glu Asn Cys
 145 150 155 160
 Gly Ile Tyr Phe Pro Glu Ile Lys Arg Asp Pro Gly Arg Tyr Leu His
 165 170 175
 Ser Cys Pro Glu Ser Val Lys Lys Trp Leu Arg Gln Leu Lys Asn Ala
 180 185 190
 Gly Lys Ile Leu Leu Leu Ile Thr Ser Ser His Ser Asp Tyr Cys Arg
 195 200 205
 Leu Leu Cys Glu Tyr Ile Leu Gly Asn Asp Phe Thr Asp Leu Phe Asp
 210 215 220
 Ile Val Ile Thr Asn Ala Leu Lys Pro Gly Phe Phe Ser His Leu Pro
 225 230 235 240
 Ser Gln Arg Pro Phe Arg Thr Leu Glu Asn Asp Glu Glu Gln Glu Ala
 245 250 255
 Leu Pro Ser Leu Asp Lys Pro Gly Trp Tyr Ser Gln Gly Asn Ala Val
 260 265 270
 His Leu Tyr Glu Leu Leu Lys Lys Met Thr Gly Lys Pro Glu Pro Lys
 275 280 285
 Val Val Tyr Phe Gly Asp Ser Met His Ser Asp Ile Phe Pro Ala Arg
 290 295 300
 His Tyr Ser Asn Trp Glu Thr Val Leu Ile Leu Glu Glu Leu Arg Gly
 305 310 315 320
 Asp Glu Gly Thr Arg Ser Gln Arg Pro Glu Glu Ser Glu Pro Leu Glu
 325 330 335
 Lys Lys Gly Lys Tyr Glu Gly Pro Lys Ala Lys Pro Leu Asn Thr Ser
 340 345 350
 Ser Lys Lys Trp Gly Ser Phe Phe Ile Asp Ser Val Leu Gly Leu Glu
 355 360 365
 Asn Thr Glu Asp Ser Leu Val Tyr Thr Trp Ser Cys Lys Arg Ile Ser
 370 375 380

Thr Tyr Ser Thr Ile Ala Ile Pro Ser Ile Glu Ala Ile Ala Glu Leu
 385 390 395 400

Pro Leu Asp Tyr Lys Phe Thr Arg Phe Ser Ser Ser Asn Ser Lys Thr
 405 410 415

Ala Gly Tyr Tyr Pro Asn Pro Pro Leu Val Leu Ser Ser Asp Glu Thr
 420 425 430

Leu Ile Ser Lys
 435

<210> 1641

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1641

Pro His Ser Leu Leu Phe Phe Leu Leu Gln Thr Leu Arg Gln Cys Ser
 1 5 10 15

Asn Thr Ser Phe Thr His Pro Pro Asn Asn Ser Val His Ser Val Phe
 20 25 30

Phe Pro Leu Ser Gly Val Ser Ser Met Leu Val Arg Leu Gly Glu His
 35 40 45

Leu Asp Leu Phe His Arg Lys Gly Cys Phe Gln Pro Val Ser Val Met
 50 55 60

Leu Val Leu Leu Gln Gln Ser Lys Ser Lys Gly Phe Arg Ser Leu Phe
 65 70 75 80

Asp

<210> 1642

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1642

Thr Glu Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu
 1 5 10 15

Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys
 20 25 30

Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro
 35 40 45

Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser
 50 55 60

Trp Xaa Asn Ser Glu Glu Ala Arg Xaa Gly Ser Pro Phe Pro His Asn
 65 70 75 80

Cys Ala Leu Glu Trp Ala
 85

<210> 1643

<211> 118

<212> PRT

<213> Homo sapiens

<400> 1643

His Cys Val Glu Gly Thr Ser Leu Ser Leu Pro Cys Leu Thr Val Ser
 1 5 10 15

Gly Ser Phe Ser Pro Cys Val Ser Trp Cys Ser Gln Pro His Gln Ser
 20 25 30

Pro Cys Arg Glu Leu Thr Ala Phe Thr Leu Lys Ala Arg Val Thr Trp
 35 40 45

Val Val Arg His His Leu Ser Pro Cys Pro His Leu Leu Val Trp Gly
 50 55 60

Phe Ser Gly Glu Leu Thr Ala Val Ser Thr Pro Leu Ser Pro His Pro
 65 70 75 80

Pro Arg Pro Ala Trp Gly Thr His Phe Leu Leu Gly Gly Ala Ser Met
 85 90 95

Val Arg Gly Pro Ala Ser Leu His Thr Ala Arg Thr Ala Leu His Arg
 100 105 110

Pro Thr Pro Tyr Asp Thr
115

<210> 1644

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1644

Arg Leu Ser Glu Ser Leu Ser Val Ser Ser Leu Gln Xaa Arg Ser Xaa
1 5 10 15

Xaa Val Lys Pro Leu Thr Ala Val Met Ser Glu Val Ile Pro Arg Thr
20 25 30

Trp Glu Thr Ala Val His Gly Trp Ile Leu Leu Thr Ser Ala Glu Phe
35 40 45

Cys Gln Val Thr
50

<210> 1645

<211> 346

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1645

Pro Pro Ala Ser Thr Leu Pro Trp Asp Leu Met Lys Ser Arg Lys Asn
 1 5 10 15

Phe Lys Lys Trp Pro Leu Thr Leu Leu Pro Glu Arg Trp Leu Gln Ile
 20 25 30

Trp Gln Xaa Gly Thr Arg Ser Met Cys Ala Trp Met Ile Asp Ser Phe
 35 40 45

Gly Asn Glu Glu Gln Arg His Lys Phe Cys Pro Pro Leu Cys Thr Met
 50 55 60

Glu Lys Phe Ala Ser Tyr Cys Leu Thr Glu Pro Gly Ser Gly Ser Asp
 65 70 75 80

Ala Ala Xaa Leu Leu Thr Ser Ala Lys Lys Gln Gly Asp His Tyr Ile
 85 90 95

Leu Asn Gly Ser Lys Ala Phe Ile Ser Gly Ala Gly Glu Ser Asp Ile
 100 105 110

Tyr Val Val Met Cys Arg Thr Gly Gly Pro Gly Pro Lys Gly Ile Ser
 115 120 125

Cys Ile Val Val Glu Lys Gly Thr Pro Gly Leu Ser Phe Gly Lys Lys
 130 135 140

Glu Lys Lys Val Gly Trp Asn Ser Gln Pro Thr Arg Ala Val Ile Phe
 145 150 155 160

Glu Asp Cys Ala Val Pro Val Ala Asn Arg Ile Gly Ser Glu Gly Gln
 165 170 175

Gly Phe Leu Ile Ala Val Arg Gly Leu Asn Gly Gly Arg Ile Asn Ile
 180 185 190

Ala Ser Cys Ser Leu Gly Ala Ala His Ala Ser Val Ile Leu Thr Arg
 195 200 205

Asp His Leu Asn Val Arg Lys Gln Phe Gly Glu Pro Leu Ala Ser Asn
 210 215 220

Gln Tyr Leu Gln Phe Thr Leu Ala Asp Met Ala Thr Arg Leu Val Ala
 225 230 235 240

Ala	Arg	Leu	Met	Val	Arg	Asn	Ala	Ala	Val	Ala	Leu	Gln	Glu	Glu	Arg		
245								250				255					
Lys	Asp	Ala	Val	Ala	Leu	Cys	Ser	Met	Ala	Lys	Leu	Phe	Ala	Thr	Asp		
260								265				270					
Glu	Cys	Phe	Ala	Ile	Cys	Asn	Gln	Ala	Leu	Gln	Met	His	Gly	Gly	Tyr		
275								280				285					
Gly	Tyr	Leu	Lys	Asp	Tyr	Ala	Val	Gln	Gln	Tyr	Val	Arg	Asp	Ser	Arg		
290								295				300					
Val	His	Gln	Ile	Leu	Glu	Glu	Leu	Phe	Trp	Gln	Gly	Pro	Gly	Val	Gln		
305								310				315				320	
Ser	Arg	Ser	Phe	Ala	Leu	Phe	Gly	Gly	Pro	Gln	Ile	Pro	Leu	Leu	Leu		
325								330				335					
Pro	Phe	Ser	Ser	Gly	Asp	Leu	Arg	Glu	Gly								
340								345									

<210> 1646

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1646

Cys Asn Leu Ala Lys Xaa Val Ile Ser Ile Ser Phe Leu Lys Glu Glu
1 5 10 15

Glu Gln Glu Asp Glu Glu Glu Ile Asp Val Val Ser Val Glu Lys Arg
20 25 30

Gln Ala Pro Gly Lys Arg Ser Glu Ser Gly Ser Pro Ser Ala Gly Gly
35 40 45

His Ser Lys Pro Pro His Ser Pro Leu Val Leu Lys Arg Cys His Val
50 55 60

Ser Thr His Gln His Asn Tyr Ala Ala Pro Pro Ser Thr Arg Lys Asp
65 70 75 80

Tyr Pro Ala Ala Lys Arg Val Lys Leu Asp Ser Val Arg Val Leu Arg
85 90 95

Gln Ile Ser Asn Asn Arg Lys Cys Thr Ser Pro Arg Ser Ser Asp Thr
100 105 110

Glu Glu Asn Val Lys Arg Arg Thr His Asn Val Leu Glu Arg Gln Arg
115 120 125

Arg Asn Glu Leu Lys Arg Ser Phe Phe Ala Leu Arg Asp Gln Ile Pro
130 135 140

Glu Leu Glu Asn Asn Glu Lys Ala Pro Lys Val Val Ile Leu Lys Lys
145 150 155 160

Ala Thr Ala Tyr Ile Leu Ser Val Gln Ala Glu Glu Gln Lys Leu Ile
165 170 175

Ser Glu Glu Asp Leu Leu Arg Lys Arg Arg Glu Gln Leu Lys His Lys
180 185 190

Leu Glu Gln Leu Arg Asn Ser Cys Ala
195 200

<210> 1647

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1647

Ser Ile Tyr Asp Ser Ser Lys Lys Asn His Leu Leu Tyr Ala Gly Asp
1 5 10 15

Met Phe Arg Asp Leu Ser Glu Lys Leu Ala Trp Phe Glu Gly Thr Gln
20 25 30

Tyr His Phe Asn Leu Leu Lys Ile Ser Val Phe Leu Leu Phe Phe Cys
35 40 45

Cys His Cys Gln Ser Ala Ile Phe Phe Thr Ile Leu Leu Lys Tyr Tyr
50 55 60

Cys Leu Leu Tyr Leu Phe Asn Val His Ile Leu Lys Lys Ser Ser Leu
65 70 75 80

Tyr Glu Leu Phe

<210> 1648

<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1648
Leu Lys Ile Asn Tyr Ile Lys Ile Ser Phe Phe Val Leu Val Phe Phe
1 5 10 15
Leu Xaa Thr Leu Cys Phe Lys Tyr Lys Xaa Lys Tyr Xaa Ile Tyr Phe
20 25 30
Cys Val Leu Pro Ser Glu Leu Lys Phe Pro Met Xaa Leu Thr Glu Leu
35 40 45
Gly Leu Ala Leu Gly Glu Glu Trp Thr Ala Ala Gly
50 55 60

<210> 1649
<211> 390
<212> PRT
<213> Homo sapiens

<400> 1649
Ala Arg Gly Glu Cys Cys Arg Gly Gly Leu Trp Glu Lys Met Ala Ala
1 5 10 15
Ala Ala Gln Ser Arg Val Val Arg Val Leu Ser Met Ser Arg Ser Ala
20 25 30

Ile Thr Ala Ile Ala Thr Ser Val Cys His Gly Pro Pro Cys Arg Gln
35 40 45

Leu His His Ala Leu Met Pro His Gly Lys Gly Gly Arg Ser Ser Val
50 55 60

Ser Gly Ile Val Ala Thr Val Phe Gly Ala Thr Gly Phe Leu Gly Arg
65 70 75 80

Tyr Val Val Asn His Leu Gly Arg Met Gly Ser Gln Val Ile Ile Pro
85 90 95

Tyr Arg Cys Asp Lys Tyr Asp Ile Met His Leu Arg Pro Met Gly Asp
100 105 110

Leu Gly Gln Leu Leu Phe Leu Glu Trp Asp Ala Arg Asp Lys Asp Ser
115 120 125

Ile Arg Arg Val Val Gln His Ser Asn Val Val Ile Asn Leu Ile Gly
130 135 140

Arg Asp Trp Glu Thr Lys Asn Phe Asp Phe Glu Asp Val Phe Val Lys
145 150 155 160

Ile Pro Gln Ala Ile Ala Gln Leu Ser Lys Glu Ala Gly Val Glu Lys
165 170 175

Phe Ile His Val Ser His Leu Asn Ala Asn Ile Lys Ser Ser Ser Arg
180 185 190

Tyr Leu Arg Asn Lys Ala Val Gly Glu Lys Val Val Arg Asp Ala Phe
195 200 205

Pro Glu Ala Ile Ile Val Lys Pro Ser Asp Ile Phe Gly Arg Glu Asp
210 215 220

Arg Phe Leu Asn Ser Phe Ala Ser Met His Arg Phe Gly Pro Ile Pro
225 230 235 240

Leu Gly Ser Leu Gly Trp Lys Thr Val Lys Gln Pro Val Tyr Val Val
245 250 255

Asp Val Ser Lys Gly Ile Val Asn Ala Val Lys Asp Pro Asp Ala Asn
260 265 270

Gly Lys Ser Phe Ala Phe Val Gly Pro Ser Arg Tyr Leu Leu Phe His
275 280 285

Leu Val Lys Tyr Ile Phe Ala Val Ala His Arg Leu Phe Leu Pro Phe
290 295 300

Pro Leu Pro Leu Phe Ala Tyr Arg Trp Val Ala Arg Val Phe Glu Ile
305 310 315 320

Ser Pro Phe Glu Pro Trp Ile Thr Arg Asp Lys Val Glu Arg Met His
325 330 335

Ile Thr Asp Met Lys Leu Pro His Leu Pro Gly Leu Glu Asp Leu Gly
340 345 350

Ile Gln Ala Thr Pro Leu Glu Leu Lys Ala Ile Glu Val Leu Arg Arg
355 360 365

His Arg Thr Tyr Arg Trp Leu Ser Ala Glu Ile Glu Asp Val Lys Pro
370 375 380

Ala Lys Thr Val Asn Ile
385 390

<210> 1650

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1650

Gly Ser Met Gly Gln Ala Gln Ser Lys Pro Thr Pro Pro Gly Thr Met
1 5 10 15

Leu Lys Asn Phe Lys Lys Gly Phe Xaa Gly Asp Tyr Gly Val Thr Met
20 25 30

Thr Pro Gly Lys Leu Arg Thr Leu Cys Glu Ile Asp Trp Pro Ala Leu
 35 40 45
 Glu Val Gly Trp Pro Ser Glu Gly Ser Xaa Asp Arg Ser Leu Val Ser
 50 55 60
 Lys Val Trp His Lys Val Thr Cys Lys Pro Gly Cys Pro Asp Gln Phe
 65 70 75 80
 Xaa Tyr Ile Asp Thr Trp Leu Gln Leu Val Leu Xaa Pro Ser Tyr Pro
 85 90 95
 His Gly Gly

<210> 1651

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1651

Ala Gly Thr Gly Gly Arg Arg Trp Gly Asn Arg Gly Ser Val Arg Leu
 1 5 10 15
 Arg Val Arg Gly Ser Asp Trp Ala Glu Gln Ala Ser His Arg Arg Val
 20 25 30
 Thr Ala Arg Arg Pro Arg Ser Glu Leu Pro Gly Gln Pro Pro Phe Cys
 35 40 45
 Trp Arg Trp Glu Arg Met Trp Ala Trp Gly Trp Gly Gly Ala Lys Leu
 50 55 60
 Arg Gly Arg Ala Ala Asp Thr Leu Lys Leu Arg Ala Gly Arg Ala Gln
 65 70 75 80
 Arg Lys Gly Arg Arg Xaa His Gly Tyr Pro Ser Val Arg Gly Ser Ser
 85 90 95
 Ser Phe Phe Trp Arg Ala Gln Gly Ala Ala Gly Val Met Ser Pro Trp
 100 105 110
 Val Leu Ala Pro Thr Ala Lys Phe Ala Trp Pro Gly Pro Pro Ser Arg

115 120 125
 Gly Leu Thr Arg His Thr Asp Gln Asn Pro Glu Gln Ala Val Leu Ser
 130 135 140
 Ile Leu Arg Leu Leu Arg Leu Pro Arg
 145 150

<210> 1652

<211> 312

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (289)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1652

Thr Phe Ile Trp Leu Ile Leu Ile Met Asn Arg Ala Phe Ser Arg Lys
 1 5 10 15
 Lys Asp Lys Thr Trp Met His Thr Pro Glu Ala Leu Ser Lys His Phe
 20 25 30
 Ile Pro Tyr Asn Ala Lys Phe Leu Gly Ser Thr Glu Val Glu Gln Pro
 35 40 45
 Lys Gly Thr Glu Val Val Arg Asp Ala Val Arg Lys Leu Lys Phe Ala
 50 55 60
 Arg His Ile Lys Lys Ser Glu Gly Gln Lys Ile Pro Lys Val Glu Leu
 65 70 75 80
 Gln Ile Ser Ile Tyr Gly Val Lys Ile Leu Glu Pro Lys Thr Lys Glu
 85 90 95
 Val Gln His Asn Cys Gln Leu His Arg Ile Ser Phe Cys Ala Asp Asp
 100 105 110
 Lys Thr Asp Lys Arg Ile Phe Thr Phe Ile Cys Lys Asp Ser Glu Ser
 115 120 125
 Asn Lys His Leu Cys Tyr Val Phe Asp Ser Glu Lys Cys Ala Glu Glu
 130 135 140
 Ile Thr Leu Thr Ile Gly Gln Ala Phe Asp Leu Ala Tyr Arg Lys Phe
 145 150 155 160

Leu Glu Ser Gly Gly Lys Asp Val Glu Thr Arg Lys Gln Ile Ala Gly
165 170 175

Leu Gln Lys Arg Ile Gln Asp Leu Glu Thr Glu Asn Met Glu Leu Lys
180 185 190

Asn Lys Val Gln Asp Leu Glu Asn Gln Leu Arg Ile Thr Gln Val Ser
195 200 205

Ala Pro Pro Ala Gly Ser Met Thr Pro Lys Ser Pro Ser Thr Asp Ile
210 215 220

Phe Asp Met Ile Pro Phe Ser Pro Ile Ser His Gln Ser Ser Met Pro
225 230 235 240

Thr Arg Asn Gly Thr Gln Pro Pro Pro Val Pro Ser Arg Ser Thr Glu
245 250 255

Ile Lys Arg Asp Leu Phe Gly Ala Glu Pro Phe Asp Pro Phe Asn Cys
260 265 270

Gly Ala Ala Asp Phe Pro Pro Asp Ile Gln Ser Lys Leu Asp Glu Met
275 280 285

Xaa Glu Gly Phe Lys Met Gly Leu Thr Leu Glu Gly Thr Val Phe Cys
290 295 300

Leu Asp Pro Leu Asp Ser Arg Cys
305 310

<210> 1653

<211> 50

<212> PRT

<213> Homo sapiens

<400> 1653

Tyr Gly Leu Gly Lys Lys Thr Lys Gln Ala Ser Cys Cys Leu Phe Tyr
1 5 10 15

Ser Asn Ile Leu Leu His Met Ile Asp Ile Phe Val Val Gly Lys Trp
20 25 30

Asp Ala Pro Gln Ile Leu Lys Val Leu Ala Asp Cys Ile Leu Ser Leu
35 40 45

Lys Ile
50

<210> 1654

<211> 117

<212> PRT

<213> Homo sapiens

<400> 1654

Tyr Lys Asn Asp Arg Ser Ser Tyr Glu Arg His Ala Asn Glu Thr Pro
1 5 10 15
Ser Ser Gly Glu Ala Leu Glu Ser Glu Leu Ser Phe Phe Leu Met Ser
20 25 30
Ser Asp Ala Ala Ser Phe Leu Ile Phe Leu Lys Thr Val Cys Phe Cys
35 40 45
Gly Met Tyr Ile Cys Thr Pro Asn Tyr Leu Ala Leu Gly Asn His Ser
50 55 60
Thr Thr Gln Arg Gln Leu Asn Lys Glu Lys Phe Asn Phe Lys Tyr Gln
65 70 75 80
Val Leu Ser Asn Ile Ser Gln Thr Ser Asp Phe Ile Lys Gly Leu Pro
85 90 95
Ala Asn Lys Val His Pro Lys Tyr Thr Gly Glu Lys Ala Arg Leu Leu
100 105 110
Gln Gly Pro Arg Val
115

<210> 1655

<211> 373

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (290)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (325)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (328)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1655

Val	Met	Ser	Thr	Ala	Ala	Leu	Ile	Thr	Leu	Val	Arg	Ser	Gly	Gly	Asn
1				5					10					15	
Gln	Val	Arg	Arg	Arg	Val	Leu	Leu	Ser	Ser	Arg	Leu	Leu	Gln	Asp	Asp
			20					25					30		
Arg	Arg	Val	Thr	Pro	Thr	Cys	His	Ser	Ser	Thr	Ser	Glu	Pro	Arg	Cys
		35					40					45			
Ser	Arg	Phe	Asp	Pro	Asp	Gly	Ser	Gly	Ser	Pro	Ala	Thr	Trp	Asp	Asn
	50					55					60				
Phe	Gly	Ile	Trp	Asp	Asn	Arg	Ile	Asp	Glu	Pro	Ile	Leu	Leu	Pro	Pro
65					70				75					80	
Ser	Ile	Lys	Tyr	Gly	Lys	Pro	Ile	Pro	Lys	Ile	Ser	Leu	Glu	Asn	Val
				85					90					95	
Gly	Cys	Ala	Ser	Gln	Ile	Gly	Lys	Arg	Lys	Glu	Asn	Glu	Asp	Arg	Phe
		100						105					110		
Asp	Phe	Ala	Gln	Leu	Thr	Asp	Glu	Val	Leu	Tyr	Phe	Ala	Val	Tyr	Asp
		115					120					125			
Gly	His	Gly	Gly	Pro	Ala	Ala	Ala	Asp	Phe	Cys	His	Thr	His	Met	Xaa
	130					135						140			
Lys	Cys	Ile	Met	Asp	Leu	Leu	Pro	Lys	Glu	Lys	Asn	Leu	Glu	Thr	Leu
145					150					155				160	
Leu	Thr	Leu	Ala	Phe	Leu	Glu	Ile	Asp	Lys	Ala	Phe	Ser	Ser	His	Ala
				165					170					175	
Arg	Leu	Ser	Ala	Asp	Ala	Thr	Leu	Leu	Thr	Ser	Gly	Thr	Thr	Ala	Thr
			180					185					190		
Val	Ala	Leu	Leu	Arg	Asp	Gly	Ile	Glu	Leu	Val	Val	Ala	Ser	Val	Gly
		195					200					205			
Asp	Ser	Arg	Ala	Ile	Leu	Cys	Arg	Lys	Gly	Lys	Pro	Met	Lys	Leu	Thr
	210					215					220				
Ile	Asp	His	Thr	Pro	Glu	Arg	Lys	Asp	Glu	Lys	Glu	Arg	Ile	Lys	Lys

225 230 235 240
 Cys Gly Gly Phe Val Ala Trp Asn Ser Leu Gly Gln Pro His Val Asn
 245 250 255
 Gly Arg Leu Ala Met Thr Arg Ser Ile Gly Asp Leu Asp Leu Lys Thr
 260 265 270
 Ser Gly Val Ile Ala Glu Pro Glu Thr Lys Arg Ile Lys Leu His His
 275 280 285
 Ala Xaa Asp Ser Phe Leu Val Leu Thr Thr Asp Gly Ile Asn Phe Met
 290 295 300
 Val Asn Ser Gln Glu Ile Cys Asp Phe Val Asn Gln Cys His Asp Pro
 305 310 315 320
 Asn Glu Ala Ala Xaa Ala Val Xaa Glu Gln Ala Ile Gln Tyr Gly Thr
 325 330 335
 Glu Asp Asn Ser Thr Ala Val Val Val Pro Phe Gly Ala Trp Gly Lys
 340 345 350
 Tyr Lys Asn Ser Glu Ile Asn Phe Ser Phe Ser Arg Ser Phe Ala Ser
 355 360 365
 Ser Gly Arg Trp Ala
 370

<210> 1656

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1656

Arg Pro Thr Arg Pro Gly Arg Thr Ala Ser Arg Leu Ala Glu Cys
 1 5 10 15
 Gly Leu Ala Gly Ser Ala Val Ser Gln Arg Glu Gln Thr Ser Pro Ser
 20 25 30
 Pro Ser Gly Gln Leu Arg Glu Lys Asn Phe Arg Glu Phe Pro Ala Gly
 35 40 45
 Lys Ala Val Ala Ala Leu Thr Ala Cys Phe Gly Asp Pro Arg Arg Arg
 50 55 60
 Arg Arg His Ser Tyr Leu Pro Thr Lys Lys Ala Pro Pro Pro Ser Ser
 65 70 75 80

Val Ser

<210> 1657

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1657

Val Ala Arg Ser Ser Ser Glu Leu Pro Arg Arg Leu Val Cys Ser Lys
1 5 10 15

Leu Arg Ala Asp Pro Gly Arg Leu Thr Pro Asp Ala Cys Xaa Arg Pro
20 25 30

Gly Met Ser Arg Tyr Leu Leu Pro Leu Ser Ala Leu Gly Thr Val Ala
35 40 45

Gly Ala Ala Val Leu Leu Lys Asp Tyr Val Thr Gly Gly Ala Cys Pro
50 55 60

Ser Lys Ala Thr Ile Pro Gly Lys Thr Val Ile Val Thr Gly Ala Asn
65 70 75 80

Thr Gly Ile Gly Lys Gln Thr Ala Leu Glu Leu Ala Arg Arg Gly Gly
85 90 95

Asn Ile Ile Leu Ala Cys Arg Asp Met Glu Lys Cys Glu Ala Ala Ala
100 105 110

Lys Asp Ile Arg Gly Glu Thr Leu Asn His His Val Asn Ala Arg His
115 120 125

Leu Asp Leu Ala Ser Leu Lys Ser Ile Arg Glu Phe Ala Ala Lys Ile
130 135 140

Ile Glu Glu Glu Glu Arg Val Asp Ile Leu Ile Asn Asn Ala Gly Val
145 150 155 160

Met Arg Cys Pro His Trp Thr Thr Glu Asp Gly Phe Glu Met Gln Phe
165 170 175

Gly Val Asn His Leu Gly His Phe Leu Leu Thr Asn Leu Leu Leu Asp

180 185 190
 Lys Leu Lys Ala Ser Ala Pro Ser Arg Ile Ile Asn Leu Ser Ser Leu
 195 200 205
 Ala His Val Ala Gly His Ile Asp Phe Asp Asp Leu Asn Trp Gln Thr
 210 215 220
 Arg Lys Tyr Asn Thr Lys Ala Ala Tyr Cys Gln Ser Lys Leu Ala Ile
 225 230 235 240
 Val Leu Phe Thr Lys Glu Leu Ser Arg Arg Leu Gln Gly Thr Gly Ala
 245 250 255
 Leu Gly Ser Ala Ser Leu Leu Leu Tyr Ser Glu Pro Arg Ala Ala Phe
 260 265 270

Pro

<210> 1658

<211> 240

<212> PRT

<213> Homo sapiens

<400> 1658

Tyr Leu Cys Ile Leu Gln Ala Ser Lys Leu Glu Asp Leu Arg Val Lys
 1 5 10 15
 Leu Lys Lys Glu Gly Tyr Ser Asn Ile Ser Tyr Ile Val Val Asn His
 20 25 30
 Gln Gly Ile Ser Ser Arg Leu Lys Tyr Thr His Leu Lys Asn Lys Val
 35 40 45
 Ser Glu His Ile Pro Val Tyr Gln Gln Glu Glu Asn Gln Thr Asp Val
 50 55 60
 Trp Thr Leu Leu Asn Gly Ser Lys Asp Asp Phe Leu Ile Tyr Asp Arg
 65 70 75 80
 Cys Gly Arg Leu Val Tyr His Leu Gly Leu Pro Phe Ser Phe Leu Thr
 85 90 95
 Phe Pro Tyr Val Glu Glu Ala Ile Lys Ile Ala Tyr Cys Glu Lys Lys
 100 105 110
 Cys Gly Asn Cys Ser Leu Thr Thr Leu Lys Asp Glu Asp Phe Cys Lys
 115 120 125

Arg Val Ser Leu Ala Thr Val Asp Lys Thr Val Glu Thr Pro Ser Pro
 130 135 140
 His Tyr His His Glu His His His Asn His Gly His Gln His Leu Gly
 145 150 155 160
 Ser Ser Glu Leu Ser Glu Asn Gln Gln Pro Gly Ala Pro Asn Ala Pro
 165 170 175
 Thr His Pro Ala Pro Pro Gly Leu His His His His Lys His Lys Gly
 180 185 190
 Gln His Arg Gln Gly His Pro Glu Asn Arg Asp Met Pro Ala Ser Glu
 195 200 205
 Asp Leu Gln Asp Leu Gln Lys Lys Leu Cys Arg Lys Arg Cys Ile Asn
 210 215 220
 Gln Leu Leu Cys Lys Leu Pro Thr Asp Ser Glu Leu Ala Pro Arg Ser
 225 230 235 240

<210> 1659

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1659

Xaa Thr Arg Gly Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Ser Gln
 1 5 10 15
 Gly Pro Leu Pro Ala Leu Ala Ala Gly Ser Thr Phe Pro Val Leu Ala
 20 25 30
 Cys Ser Ser Ala Met Ala Pro Lys Gly Ser Ser Lys Gln Gln Ser Glu
 35 40 45
 Glu Asp Leu Leu Leu Gln Asp Phe Ser Arg Asn Leu Ser Ala Lys Ser
 50 55 60
 Ser Ala Leu Phe Phe Gly Asn Ala Phe Ile Val Ser Ala Ile Pro Ile

65	70										75					80				
Trp	Leu	Tyr	Trp	Arg	Ile	Trp	His	Met	Asp	Leu	Ile	Gln	Ser	Ala	Val					
				85					90					95						
Leu	Tyr	Ser	Val	Met	Thr	Leu	Val	Ser	Thr	Tyr	Leu	Val	Ala	Phe	Ala					
			100					105					110							
Tyr	Lys	Asn	Val	Lys	Phe	Val	Leu	Lys	His	Lys	Val	Ala	Gln	Lys	Arg					
		115					120					125								
Glu	Asp	Ala	Val	Ser	Lys	Glu	Val	Thr	Arg	Lys	Leu	Ser	Glu	Ala	Asp					
	130					135					140									
Asn	Arg	Lys	Met	Ser	Arg	Lys	Glu	Lys	Asp	Glu	Arg	Ile	Leu	Trp	Lys					
145					150				155						160					
Lys	Asn	Glu	Val	Ala	Asp	Tyr	Glu	Ala	Thr	Thr	Phe	Ser	Ile	Phe	Tyr					
			165					170					175							
Asn	Asn	Thr	Leu	Phe	Leu	Val	Val	Val	Ile	Val	Ala	Ser	Phe	Phe	Ile					
			180				185						190							
Leu	Lys	Asn	Phe	Asn	Pro	Thr	Val	Asn	Tyr	Ile	Leu	Ser	Ile	Ser	Ala					
	195					200					205									
Ser	Ser	Gly	Leu	Ile	Ala	Leu	Leu	Ser	Thr	Gly	Ser	Lys								
210						215					220									

<210> 1660

<211> 421

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (321)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (383)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (403)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1660

Glu Leu Gly Ala Gly Gly Asp Gly His Arg Gly Gly Asp Gly Ala Val
 1 5 10 15

Arg Ser Glu Thr Ala Pro Asp Ser Tyr Lys Val Gln Asp Lys Lys Asn
 20 25 30

Ala Ser Ser Arg Pro Ala Ser Ala Ile Ser Gly Gln Asn Asn Asn His
 35 40 45

Ser Gly Asn Lys Pro Asp Pro Pro Pro Val Leu Arg Val Asp Asp Arg
 50 55 60

Gln Arg Leu Ala Arg Glu Arg Arg Glu Glu Arg Glu Lys Gln Leu Ala
 65 70 75 80

Ala Arg Glu Ile Val Trp Leu Glu Arg Glu Glu Arg Ala Arg Gln His
 85 90 95

Tyr Glu Lys His Leu Glu Glu Arg Lys Lys Arg Leu Glu Glu Gln Arg
 100 105 110

Gln Lys Glu Glu Arg Arg Arg Ala Ala Val Glu Glu Lys Arg Arg Gln
 115 120 125

Arg Leu Glu Glu Asp Lys Glu Arg His Glu Ala Xaa Val Arg Arg Thr
 130 135 140

Met Glu Arg Ser Gln Lys Pro Lys Gln Lys His Asn Arg Trp Ser Trp
 145 150 155 160

Gly Gly Ser Xaa His Gly Xaa Pro Ser Ile His Ser Ala Ala Arg Arg
 165 170 175

Leu Gln Leu Ser Pro Trp Glu Ser Ser Val Val Asn Arg Leu Leu Thr
 180 185 190

Pro Thr His Ser Phe Leu Ala Arg Ser Lys Ser Thr Ala Ala Leu Ser
195 200 205

Gly Glu Ala Ala Ser Cys Ser Pro Ile Ile Met Pro Tyr Lys Ala Ala
210 215 220

His Ser Arg Asn Ser Met Asp Arg Pro Lys Leu Phe Val Thr Pro Pro
225 230 235 240

Glu Gly Ser Ser Arg Arg Arg Ile Ile His Gly Thr Ala Ser Tyr Lys
245 250 255

Lys Glu Arg Glu Arg Glu Asn Val Leu Phe Leu Thr Ser Gly Thr Arg
260 265 270

Arg Ala Val Ser Pro Ser Asn Pro Lys Ala Arg Gln Pro Ala Arg Ser
275 280 285

Arg Leu Trp Leu Pro Ser Lys Ser Leu Pro His Leu Pro Gly Thr Pro
290 295 300

Arg Pro Thr Ser Ser Leu Pro Pro Gly Ser Val Lys Ala Ala Pro Ala
305 310 315 320

Xaa Val Arg Pro Pro Ser Pro Gly Asn Ile Arg Pro Val Lys Arg Glu
325 330 335

Val Lys Val Glu Pro Glu Lys Lys Asp Pro Glu Lys Glu Pro Gln Lys
340 345 350

Val Ala Asn Glu Pro Ser Leu Lys Gly Arg Ala Pro Leu Val Lys Val
355 360 365

Glu Glu Ala Thr Val Glu Glu Arg Thr Pro Ala Glu Pro Glu Xaa Gly
370 375 380

Leu Leu Leu Gln Pro Trp Pro Gln Leu Gln Pro Arg Pro Gln Leu Gln
385 390 395 400

Pro Arg Xaa Gln Leu Gln Pro Arg Ser Pro Pro Gln Pro Trp Ser Gln
405 410 415

Pro Arg His Pro Leu
420

<210> 1661

<211> 468

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1661

Arg	Xaa	Thr	Thr	Ser	Gly	Thr	Leu	Asp	Phe	Asp	Glu	Val	Val	Asn	Asp
1				5					10					15	
Ala	Asp	Ile	Ile	Leu	Val	Glu	Phe	Tyr	Ala	Pro	Trp	Cys	Gly	His	Cys
		20						25					30		
Lys	Lys	Leu	Ala	Pro	Glu	Tyr	Glu	Lys	Ala	Ala	Lys	Glu	Leu	Ser	Lys
		35					40					45			
Arg	Ser	Pro	Pro	Ile	Pro	Leu	Ala	Lys	Val	Asp	Ala	Thr	Ala	Glu	Thr
	50					55					60				
Asp	Leu	Ala	Lys	Arg	Phe	Asp	Val	Ser	Gly	Tyr	Pro	Thr	Leu	Lys	Ile
65				70						75				80	
Phe	Arg	Lys	Gly	Arg	Pro	Tyr	Asp	Tyr	Asn	Gly	Pro	Arg	Glu	Lys	Tyr
			85						90					95	
Gly	Ile	Val	Asp	Tyr	Met	Ile	Glu	Gln	Ser	Gly	Pro	Pro	Ser	Lys	Glu
		100						105						110	
Ile	Leu	Thr	Leu	Lys	Gln	Val	Gln	Glu	Phe	Leu	Lys	Asp	Gly	Asp	Asp
		115					120						125		
Val	Ile	Ile	Ile	Gly	Val	Phe	Lys	Gly	Glu	Ser	Asp	Pro	Ala	Tyr	Gln
		130					135					140			
Gln	Tyr	Gln	Asp	Ala	Ala	Asn	Asn	Leu	Arg	Glu	Asp	Tyr	Lys	Phe	His
145					150					155				160	
His	Thr	Phe	Ser	Thr	Glu	Ile	Ala	Lys	Phe	Leu	Lys	Val	Ser	Gln	Gly
				165					170					175	
Gln	Leu	Val	Val	Met	Gln	Pro	Glu	Lys	Phe	Gln	Ser	Lys	Tyr	Glu	Pro
			180					185					190		
Arg	Ser	His	Met	Met	Asp	Val	Gln	Gly	Ser	Thr	Gln	Asp	Ser	Ala	Ile
		195					200					205			
Lys	Asp	Phe	Val	Leu	Lys	Tyr	Ala	Leu	Pro	Leu	Val	Gly	His	Arg	Lys
		210					215				220				
Val	Ser	Asn	Asp	Ala	Lys	Arg	Tyr	Thr	Arg	Arg	Pro	Leu	Val	Val	Val

225 230 235 240
Tyr Tyr Ser Val Asp Phe Ser Phe Asp Tyr Arg Ala Ala Thr Gln Phe
 245 250 255
Trp Arg Ser Lys Val Leu Glu Val Ala Lys Asp Phe Pro Glu Tyr Thr
 260 265 270
Phe Ala Ile Ala Asp Glu Glu Asp Tyr Ala Gly Glu Val Lys Asp Leu
 275 280 285
Gly Leu Ser Glu Ser Gly Glu Asp Val Asn Ala Ala Ile Leu Asp Glu
 290 295 300
Ser Gly Lys Lys Phe Ala Met Glu Pro Glu Glu Phe Asp Ser Asp Thr
305 310 315 320
Leu Arg Glu Phe Val Thr Ala Phe Lys Lys Gly Lys Leu Lys Pro Val
 325 330 335
Ile Lys Ser Gln Pro Val Pro Lys Asn Asn Lys Gly Pro Val Lys Val
 340 345 350
Val Val Gly Lys Thr Phe Asp Ser Ile Val Met Asp Pro Lys Lys Asp
 355 360 365
Val Leu Ile Glu Phe Tyr Ala Pro Trp Cys Gly His Cys Lys Gln Leu
 370 375 380
Glu Pro Val Tyr Asn Ser Leu Ala Lys Lys Tyr Lys Gly Gln Lys Gly
385 390 395 400
Leu Val Ile Ala Lys Met Asp Ala Thr Ala Asn Asp Val Pro Ser Asp
 405 410 415
Arg Tyr Lys Val Glu Gly Phe Pro Thr Ile Tyr Phe Ala Pro Ser Gly
 420 425 430
Asp Lys Lys Asn Pro Val Lys Phe Glu Gly Gly Asp Arg Asp Leu Glu
 435 440 445
His Leu Ser Lys Phe Ile Glu Glu His Ala Thr Lys Leu Ser Arg Thr
 450 455 460
Lys Glu Glu Leu
465

<210> 1662

<211> 355

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (262)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1662

Ala	Ala	Gly	Ile	Arg	Xaa	Arg	Arg	Gly	Gly	Cys	Lys	Met	Pro	Leu	Pro	
1				5					10					15		
Val	Gln	Val	Phe	Asn	Leu	Gln	Gly	Ala	Val	Glu	Pro	Met	Gln	Ile	Asp	
			20				25						30			
Val	Asp	Pro	Gln	Glu	Asp	Pro	Gln	Asn	Ala	Pro	Asp	Val	Asn	Tyr	Val	
		35					40					45				
Val	Glu	Asn	Pro	Ser	Leu	Asp	Leu	Glu	Gln	Tyr	Ala	Ala	Ser	Tyr	Ser	
	50					55					60					
Gly	Leu	Met	Arg	Ile	Glu	Arg	Leu	Gln	Phe	Ile	Ala	Asp	His	Cys	Pro	
65				70					75						80	
Thr	Leu	Arg	Val	Glu	Ala	Leu	Lys	Met	Ala	Leu	Ser	Phe	Val	Gln	Arg	
			85						90					95		
Thr	Phe	Asn	Val	Asp	Met	Tyr	Glu	Glu	Ile	His	Arg	Lys	Leu	Ser	Glu	
		100						105						110		
Ala	Thr	Arg	Glu	Leu	Gln	Asn	Ala	Pro	Asp	Ala	Ile	Pro	Glu	Ser	Gly	
	115					120					125					
Val	Glu	Pro	Pro	Ala	Leu	Asp	Thr	Ala	Trp	Val	Glu	Ala	Thr	Arg	Lys	
	130					135				140						
Lys	Ala	Leu	Leu	Lys	Leu	Glu	Lys	Leu	Asp	Thr	Asp	Leu	Lys	Asn	Tyr	
145				150					155					160		
Lys	Gly	Asn	Ser	Ile	Lys	Glu	Ser	Ile	Arg	Arg	Gly	His	Asp	Asp	Leu	
		165						170					175			
Gly	Asp	His	Tyr	Leu	Asp	Cys	Gly	Asp	Leu	Ser	Asn	Ala	Leu	Lys	Cys	
	180						185						190			
Tyr	Ser	Arg	Ala	Arg	Asp	Tyr	Cys	Thr	Ser	Ala	Lys	His	Val	Ile	Asn	

195	200	205
Met Cys Leu Asn Val Ile Lys Val Ser Val Tyr Leu Gln Asn Trp Ser		
210	215	220
His Val Leu Ser Tyr Val Ser Lys Ala Glu Ser Thr Pro Glu Ile Ala		
225	230	235 240
Glu Gln Arg Gly Glu Arg Asp Ser Gln Thr Gln Ala Ile Leu Thr Lys		
	245	250 255
Leu Lys Cys Ala Ala Xaa Trp Gln Ser Trp Pro Pro Gly Ser Thr Ser		
	260	265 270
Arg Leu Pro Ser Ala Ser Cys Trp Leu Pro Leu Ile Thr Val Thr Ser		
	275	280 285
Leu Ser Cys Cys Pro Pro Ala Thr Trp Pro Ser Thr Val Ala Cys Ala		
	290	295 300
Pro Trp Leu Pro Leu Thr Gly Arg Ser Cys Ser Ala Met Ser Ser Pro		
	305	310 315 320
Ala Ala Pro Ser Ser Cys Ser Trp Ser Trp Ser His Arg Ser Glu Thr		
	325	330 335
Ser Ser Ser Asn Ser Thr Ser Pro Ser Thr Pro His Val Ser Arg Cys		
	340	345 350
Trp Thr Arg		
	355	

<210> 1663

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1663

Leu Ser His Leu Ser Leu Leu Asn Ser Trp Asp Tyr Arg Cys Met Leu		
1	5	10 15
Pro Cys Leu Ala Thr Phe Cys Val Phe Ser Arg Asp Arg Val Ser Pro		
	20	25 30
Cys Trp Ser Gly Trp Ser Arg Thr Pro Asp Leu Lys Trp Ser Val Trp		
	35	40 45
Leu Gly Leu Pro Arg Cys Trp Asp Tyr Arg Cys Glu Pro Leu His Leu		
	50	55 60

Ala Tyr Ile Gly Phe Phe Leu Lys Pro Ile
65 70

<210> 1664

<211> 485

<212> PRT

<213> Homo sapiens

<400> 1664

Pro Gly Ser Ile Leu Arg Glu Thr Gly Leu Gly Cys Asp Ala Ala Ala
1 5 10 15

Gly Val Arg Met Ser Tyr Pro Gly Tyr Pro Pro Thr Gly Tyr Pro Pro
20 25 30

Phe Pro Gly Tyr Pro Pro Ala Gly Gln Glu Ser Ser Phe Pro Pro Ser
35 40 45

Gly Gln Tyr Pro Tyr Pro Ser Gly Phe Pro Pro Met Gly Gly Gly Ala
50 55 60

Tyr Pro Gln Val Pro Ser Ser Gly Tyr Pro Gly Ala Gly Gly Tyr Pro
65 70 75 80

Ala Pro Gly Gly Tyr Pro Ala Pro Gly Gly Tyr Pro Gly Ala Pro Gln
85 90 95

Pro Gly Gly Ala Pro Ser Tyr Pro Gly Val Pro Pro Gly Gln Gly Phe
100 105 110

Gly Val Pro Pro Gly Gly Ala Gly Phe Ser Gly Tyr Pro Gln Pro Pro
115 120 125

Ser Gln Ser Tyr Gly Gly Gly Pro Ala Gln Val Pro Leu Pro Gly Gly
130 135 140

Phe Pro Gly Gly Gln Met Pro Ser Gln Tyr Pro Gly Gly Gln Pro Thr
145 150 155 160

Tyr Pro Ser Gln Pro Ala Thr Val Thr Gln Val Thr Gln Gly Thr Ile
165 170 175

Arg Pro Ala Ala Asn Phe Asp Ala Ile Arg Asp Ala Glu Ile Leu Arg
180 185 190

Lys Ala Met Lys Gly Phe Gly Thr Asp Glu Gln Ala Ile Val Asp Val
195 200 205

Val Ala Asn Arg Ser Asn Asp Gln Arg Gln Lys Ile Lys Ala Ala Phe
 210 215 220
 Lys Thr Ser Tyr Gly Lys Asp Leu Ile Lys Asp Leu Lys Ser Glu Leu
 225 230 235 240
 Ser Gly Asn Met Glu Glu Leu Ile Leu Ala Leu Phe Met Pro Pro Thr
 245 250 255
 Tyr Tyr Asp Ala Trp Ser Leu Arg Lys Ala Met Gln Gly Ala Gly Thr
 260 265 270
 Gln Glu Arg Val Leu Ile Glu Ile Leu Cys Thr Arg Thr Asn Gln Glu
 275 280 285
 Ile Arg Glu Ile Val Arg Cys Tyr Gln Ser Glu Phe Gly Arg Asp Leu
 290 295 300
 Glu Lys Asp Ile Arg Ser Asp Thr Ser Gly His Phe Glu Arg Leu Leu
 305 310 315 320
 Val Ser Met Cys Gln Gly Asn Arg Asp Glu Asn Gln Ser Ile Asn His
 325 330 335
 Gln Met Ala Gln Glu Asp Ala Gln Arg Leu Tyr Gln Ala Gly Glu Gly
 340 345 350
 Arg Leu Gly Thr Asp Glu Ser Cys Phe Asn Met Ile Leu Ala Thr Arg
 355 360 365
 Ser Phe Pro Gln Leu Arg Ala Thr Met Glu Ala Tyr Ser Arg Met Ala
 370 375 380
 Asn Arg Asp Leu Leu Ser Ser Val Ser Arg Glu Phe Ser Gly Tyr Val
 385 390 395 400
 Glu Ser Gly Leu Lys Thr Ile Leu Gln Cys Ala Leu Asn Arg Pro Ala
 405 410 415
 Phe Phe Ala Glu Arg Leu Tyr Tyr Ala Met Lys Gly Ala Gly Thr Asp
 420 425 430
 Asp Ser Thr Leu Val Arg Ile Val Val Thr Arg Ser Glu Ile Asp Leu
 435 440 445
 Val Gln Ile Lys Gln Met Phe Ala Gln Met Tyr Gln Lys Thr Leu Gly
 450 455 460
 Thr Met Ile Ala Gly Asp Thr Ser Gly Asp Tyr Arg Arg Leu Leu Leu
 465 470 475 480

Ala Ile Val Gly Gln
485

<210> 1665

<211> 235

<212> PRT

<213> Homo sapiens

<400> 1665

Arg Asn Val Ile Glu Ala Cys Leu Gln Thr Gly Thr Arg Phe Leu Val
1 5 10 15

Tyr Thr Ser Ser Met Glu Val Val Gly Pro Asn Thr Lys Gly His Pro
20 25 30

Phe Tyr Arg Gly Asn Glu Asp Thr Pro Tyr Glu Ala Val His Arg His
35 40 45

Pro Tyr Pro Cys Ser Lys Ala Leu Ala Glu Trp Leu Val Leu Glu Ala
50 55 60

Asn Gly Arg Lys Val Arg Gly Gly Leu Pro Leu Val Thr Cys Ala Leu
65 70 75 80

Arg Pro Thr Gly Ile Tyr Gly Glu Gly His Gln Ile Met Arg Asp Phe
85 90 95

Tyr Arg Gln Gly Leu Arg Leu Gly Gly Trp Leu Phe Arg Ala Ile Pro
100 105 110

Ala Ser Val Glu His Gly Arg Val Tyr Val Gly Asn Val Ala Trp Met
115 120 125

His Val Leu Ala Ala Arg Glu Leu Glu Gln Arg Ala Ala Leu Met Gly
130 135 140

Gly Gln Val Tyr Phe Cys Tyr Asp Gly Ser Pro Tyr Arg Ser Tyr Glu
145 150 155 160

Asp Phe Asn Met Glu Phe Leu Gly Pro Leu Arg Thr Ala Ala Gly Gly
165 170 175

Arg Pro Pro Ile Ala Ala Leu Leu Ala Ala Gly Val Pro Gly Cys Pro
180 185 190

Gln Cys Pro Ala Ala Val Ala Ala Ala Ala Thr Gly Ala Leu Arg Thr
195 200 205

Pro Ala Glu Pro Leu His Ala Gly Arg Gly Gln His His Leu His Arg

210 215 220
 Gln His Arg Gln Gly Ser Ala Pro Phe Arg Leu
 225 230 235

 <210> 1666
 <211> 292
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (85)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1666
 Ala Ala Leu Glu Gly Pro Glu Glu Glu Leu Glu Gly Ser Ser Glu Pro
 1 5 10 15
 Glu Glu Trp Cys Pro Pro Met Pro Glu Arg Ser His Leu Thr Glu Pro
 20 25 30
 Ser Ser Ser Gly Gly Cys Leu Val Thr Pro Ser Arg Arg Glu Thr Pro
 35 40 45
 Ser Pro Thr Pro Ser Tyr Gly Gln Gln Ser Thr Ala Thr Leu Thr Pro
 50 55 60
 Ser Pro Pro Asp Pro Pro Gln Pro Pro Thr Asp Met Pro His Leu His
 65 70 75 80
 Gln Met Pro Arg Xaa Val Pro Leu Gly Pro Ser Ser Pro Leu Ser Val
 85 90 95
 Ser Gln Pro Met Leu Gly Ile Arg Glu Ala Arg Pro Ala Gly Leu Gly
 100 105 110
 Ala Gly Pro Ala Ala Ser Pro His Leu Ser Pro Ser Pro Ala Pro Ser
 115 120 125
 Thr Ala Ser Ser Ala Pro Gly Arg Thr Trp Gln Gly Asn Gly Glu Met
 130 135 140
 Thr Pro Pro Leu Gln Gly Pro Arg Ala Arg Phe Arg Lys Lys Pro Lys
 145 150 155 160
 Ala Leu Pro Tyr Arg Arg Glu Asn Ser Pro Gly Asp Leu Pro Pro Pro
 165 170 175

Pro Leu Pro Pro Pro Glu Glu Glu Ala Ser Trp Ala Leu Glu Leu Arg
 180 185 190

Ala Ala Gly Ser Met Ser Ser Leu Glu Arg Glu Arg Ser Gly Glu Arg
 195 200 205

Lys Ala Val Gln Ala Val Pro Leu Ala Ala Gln Arg Val Leu His Pro
 210 215 220

Asp Glu Glu Ala Trp Leu Pro Tyr Ser Arg Pro Ser Phe Leu Ser Arg
 225 230 235 240

Gly Gln Gly Thr Ser Thr Cys Ser Thr Ala Gly Ser Asn Ser Ser Arg
 245 250 255

Gly Ser Ser Ser Ser Arg Gly Ser Arg Gly Pro Gly Arg Ser Arg Ser
 260 265 270

Arg Ser Gln Ser Arg Ser Gln Ser Gln Arg Pro Gly Gln Lys Arg Arg
 275 280 285

Glu Glu Pro Arg
 290

<210> 1667

<211> 521

<212> PRT

<213> Homo sapiens

<400> 1667

Lys Trp Lys Ser Gly Lys Asp Val Asp Ile Ser Leu Leu Val Ser Phe
 1 5 10 15

Asn Lys Met Lys Lys Leu Thr Thr Asp Gly Lys Leu Ile Ala Arg Ala
 20 25 30

Leu Arg Ser Ser Ala Val Val Glu Leu Asp Leu Glu Gly Thr Arg Ile
 35 40 45

Arg Arg Lys Lys Pro Leu Gly Glu Arg Pro Lys Asp Glu Asp Glu Arg
 50 55 60

Thr Val Tyr Val Glu Leu Leu Pro Lys Asn Val Asn His Ser Trp Ile
 65 70 75 80

Glu Arg Val Phe Gly Lys Cys Gly Asn Val Val Tyr Ile Ser Ile Pro
 85 90 95

His Tyr Lys Ser Thr Gly Asp Pro Lys Gly Phe Ala Phe Val Glu Phe

100	105	110
Glu Thr Lys Glu Gln Ala Ala Lys Ala Ile Glu Phe Leu Asn Asn Pro		
115	120	125
Pro Glu Glu Ala Pro Arg Lys Pro Gly Ile Phe Pro Lys Thr Val Lys		
130	135	140
Asn Lys Pro Ile Pro Ala Leu Arg Val Val Glu Glu Lys Lys Lys Lys		
145	150	155 160
Lys Lys Lys Lys Gly Arg Met Lys Lys Glu Asp Asn Ile Gln Ala Lys		
	165	170 175
Glu Glu Asn Met Asp Thr Ser Asn Thr Ser Ile Ser Lys Met Lys Arg		
	180	185 190
Ser Arg Pro Thr Ser Glu Gly Ser Asp Ile Glu Ser Thr Glu Pro Gln		
	195	200 205
Lys Gln Cys Ser Lys Lys Lys Lys Lys Arg Asp Arg Val Glu Ala Ser		
	210	215 220
Ser Leu Pro Glu Val Arg Thr Gly Lys Arg Lys Arg Ser Ser Ser Glu		
	225	230 235 240
Asp Ala Glu Ser Leu Ala Pro Arg Ser Lys Val Lys Lys Ile Ile Gln		
	245	250 255
Lys Asp Ile Ile Lys Glu Ala Ser Glu Ala Ser Lys Glu Asn Arg Asp		
	260	265 270
Ile Glu Ile Ser Thr Glu Glu Glu Lys Asp Thr Gly Asp Leu Lys Asp		
	275	280 285
Ser Ser Leu Leu Lys Thr Lys Arg Lys His Lys Lys Lys His Lys Glu		
	290	295 300
Arg His Lys Met Gly Glu Glu Val Ile Pro Leu Arg Val Leu Ser Lys		
	305	310 315 320
Ser Glu Trp Met Asp Leu Lys Lys Glu Tyr Leu Ala Leu Gln Lys Ala		
	325	330 335
Ser Met Ala Ser Leu Lys Lys Thr Ile Ser Gln Ile Lys Ser Glu Ser		
	340	345 350
Glu Met Glu Thr Asp Ser Gly Val Pro Gln Asn Thr Gly Met Lys Asn		
	355	360 365
Glu Lys Thr Ala Asn Arg Glu Glu Cys Arg Thr Gln Glu Lys Val Asn		

370 375 380
 Ala Thr Gly Pro Gln Phe Val Ser Gly Val Ile Val Lys Ile Ile Ser
 385 390 395 400
 Thr Glu Pro Leu Pro Gly Arg Lys Gln Val Arg Asp Thr Leu Ala Ala
 405 410 415
 Ile Ser Glu Val Leu Tyr Val Asp Leu Leu Glu Gly Asp Thr Glu Cys
 420 425 430
 His Ala Arg Phe Lys Thr Pro Glu Asp Ala Gln Ala Val Ile Asn Ala
 435 440 445
 Tyr Thr Glu Ile Asn Lys Lys His Cys Trp Lys Leu Glu Ile Leu Ser
 450 455 460
 Gly Asp His Glu Gln Arg Tyr Trp Gln Lys Ile Leu Val Asp Arg Gln
 465 470 475 480
 Ala Lys Leu Asn Gln Pro Arg Glu Lys Lys Arg Gly Thr Glu Lys Leu
 485 490 495
 Ile Thr Lys Ala Glu Lys Ile Arg Leu Ala Lys Thr Gln Gln Ala Ser
 500 505 510
 Lys His Ile Arg Phe Ser Glu Tyr Asp
 515 520

<210> 1668

<211> 306

<212> PRT

<213> Homo sapiens

<400> 1668

Phe Pro Glu Leu Ser Gly Arg Arg Ala Lys Ala Lys Gly Val Trp Arg
 1 5 10 15
 Ala Ala Pro Gly Ala Asn Met Pro Arg Tyr Ala Gln Leu Val Met Gly
 20 25 30
 Pro Ala Gly Ser Gly Lys Ser Thr Tyr Cys Ala Thr Met Val Gln His
 35 40 45
 Cys Glu Ala Leu Asn Arg Ser Val Gln Val Val Asn Leu Asp Pro Ala
 50 55 60
 Ala Glu His Phe Asn Tyr Ser Val Met Ala Asp Ile Arg Glu Leu Ile
 65 70 75 80

Glu Val Asp Asp Val Met Glu Asp Asp Ser Leu Arg Phe Gly Pro Asn
85 90 95

Gly Gly Leu Val Phe Cys Met Glu Tyr Phe Ala Asn Asn Phe Asp Trp
100 105 110

Leu Glu Asn Cys Leu Gly His Val Glu Asp Asp Tyr Ile Leu Phe Asp
115 120 125

Cys Pro Gly Gln Ile Glu Leu Tyr Thr His Leu Pro Val Met Lys Gln
130 135 140

Leu Val Gln Gln Leu Glu Gln Trp Glu Phe Arg Val Cys Gly Val Phe
145 150 155 160

Leu Val Asp Ser Gln Phe Met Val Glu Ser Phe Lys Phe Ile Ser Gly
165 170 175

Ile Leu Ala Ala Leu Ser Ala Met Ile Ser Leu Glu Ile Pro Gln Val
180 185 190

Asn Ile Met Thr Lys Met Asp Leu Leu Ser Lys Lys Ala Lys Lys Glu
195 200 205

Ile Glu Lys Phe Leu Asp Pro Asp Met Tyr Ser Leu Leu Glu Asp Ser
210 215 220

Thr Ser Asp Leu Arg Ser Lys Lys Phe Lys Lys Leu Thr Lys Ala Ile
225 230 235 240

Cys Gly Leu Ile Asp Asp Tyr Ser Met Val Arg Phe Leu Pro Tyr Asp
245 250 255

Gln Ser Asp Glu Glu Ser Met Asn Ile Val Leu Gln His Ile Asp Phe
260 265 270

Ala Ile Gln Tyr Gly Glu Asp Leu Glu Phe Lys Glu Pro Lys Glu Arg
275 280 285

Glu Asp Glu Ser Ser Ser Met Phe Asp Glu Tyr Phe Gln Glu Cys Gln
290 295 300

Asp Glu
305

<210> 1669

<211> 412

<212> PRT

<213> Homo sapiens

<400> 1669

Glu Thr Glu Asp Val Met Glu Leu Leu Glu Glu Asp Leu Thr Cys Pro
1 5 10 15

Ile Cys Cys Ser Leu Phe Asp Asp Pro Arg Val Leu Pro Cys Ser His
20 25 30

Asn Phe Cys Lys Lys Cys Leu Glu Gly Ile Leu Glu Gly Ser Val Arg
35 40 45

Asn Ser Leu Trp Arg Pro Ala Pro Phe Lys Cys Pro Thr Cys Arg Lys
50 55 60

Glu Thr Ser Ala Thr Gly Ile Asn Ser Leu Gln Val Asn Tyr Ser Leu
65 70 75 80

Lys Gly Ile Val Glu Lys Tyr Asn Lys Ile Lys Ile Ser Pro Lys Met
85 90 95

Pro Val Cys Lys Gly His Leu Gly Gln Pro Leu Asn Ile Phe Cys Leu
100 105 110

Thr Asp Met Gln Leu Ile Cys Gly Ile Cys Ala Thr Arg Gly Glu His
115 120 125

Thr Lys His Val Phe Cys Ser Ile Glu Asp Ala Tyr Ala Gln Glu Arg
130 135 140

Asp Ala Phe Glu Ser Leu Phe Gln Ser Phe Glu Thr Trp Arg Arg Gly
145 150 155 160

Asp Ala Leu Ser Arg Leu Asp Thr Leu Glu Thr Ser Lys Arg Lys Ser
165 170 175

Leu Gln Leu Leu Thr Lys Asp Ser Asp Lys Val Lys Glu Phe Phe Glu
180 185 190

Lys Leu Gln His Thr Leu Asp Gln Lys Lys Asn Glu Ile Leu Ser Asp
195 200 205

Phe Glu Thr Met Lys Leu Ala Val Met Gln Ala Tyr Asp Pro Glu Ile
210 215 220

Asn Lys Leu Asn Thr Ile Leu Gln Glu Gln Arg Met Ala Phe Asn Ile
225 230 235 240

Ala Glu Ala Phe Lys Asp Val Ser Glu Pro Ile Val Phe Leu Gln Gln
245 250 255

Met Gln Glu Phe Arg Glu Lys Ile Lys Val Ile Lys Glu Thr Pro Leu
 260 265 270
 Pro Pro Ser Asn Leu Pro Ala Ser Pro Leu Met Lys Asn Phe Asp Thr
 275 280 285
 Ser Gln Trp Glu Asp Ile Lys Leu Val Asp Val Asp Lys Leu Ser Leu
 290 295 300
 Pro Gln Asp Thr Gly Thr Phe Ile Ser Lys Ile Pro Trp Ser Phe Tyr
 305 310 315 320
 Lys Leu Phe Leu Leu Ile Leu Leu Leu Gly Leu Val Ile Val Phe Gly
 325 330 335
 Pro Thr Met Phe Leu Glu Trp Ser Leu Phe Asp Asp Leu Ala Thr Trp
 340 345 350
 Lys Gly Cys Leu Ser Asn Phe Ser Ser Tyr Leu Thr Lys Thr Ala Asp
 355 360 365
 Phe Ile Glu Gln Ser Val Phe Tyr Trp Glu Gln Val Thr Asp Gly Phe
 370 375 380
 Phe Ile Phe Asn Glu Arg Phe Lys Asn Phe Thr Leu Val Val Leu Asn
 385 390 395 400
 Asn Val Ala Glu Phe Val Cys Lys Tyr Lys Leu Leu
 405 410

<210> 1670

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1670

Pro Glu Glu Ala Leu Glu Pro Glu Ala Met Ala His Tyr Pro Thr Arg
 1 5 10 15
 Leu Lys Thr Arg Lys Thr Tyr Ser Trp Val Gly Arg Pro Leu Leu Asp
 20 25 30
 Arg Lys Leu His Tyr Gln Thr Tyr Arg Glu Met Cys Val Lys Thr Glu
 35 40 45
 Gly Cys Ser Thr Glu Ile His Ile Gln Ile Gly Gln Phe Val Leu Ile
 50 55 60
 Glu Gly Asp Asp Asp Glu Asn Pro Tyr Val Ala Lys Leu Leu Glu Leu

65	70	75	80
Phe Glu Asp Asp Ser Asp Pro Pro Pro			
	85		
<210> 1671			
<211> 218			
<212> PRT			
<213> Homo sapiens			
<400> 1671			
Asp Pro Arg Val Arg Ile Glu Ile Ile Thr Asp Arg Gln Ser Gly Lys			
1	5	10	15
Lys Arg Gly Phe Gly Phe Val Thr Phe Asp Asp His Asp Pro Val Asp			
	20	25	30
Lys Ile Val Leu Gln Lys Tyr His Thr Ile Asn Gly His Asn Ala Glu			
	35	40	45
Val Arg Lys Ala Leu Ser Arg Gln Glu Met Gln Glu Val Gln Ser Ser			
	50	55	60
Arg Ser Gly Arg Gly Gly Asn Phe Gly Phe Gly Asp Ser Arg Gly Gly			
65	70	75	80
Gly Gly Asn Phe Gly Pro Gly Pro Gly Ser Asn Phe Arg Gly Gly Ser			
	85	90	95
Asp Gly Tyr Gly Ser Gly Arg Gly Phe Gly Asp Gly Tyr Asn Gly Tyr			
	100	105	110
Gly Gly Gly Pro Gly Gly Gly Asn Phe Gly Gly Ser Pro Gly Tyr Gly			
	115	120	125
Gly Gly Arg Gly Gly Tyr Gly Gly Gly Gly Pro Gly Tyr Gly Asn Gln			
	130	135	140
Gly Gly Gly Tyr Gly Gly Gly Tyr Asp Asn Tyr Gly Gly Gly Asn Tyr			
145	150	155	160
Gly Ser Gly Asn Tyr Asn Asp Phe Gly Asn Tyr Asn Gln Gln Pro Ser			
	165	170	175
Asn Tyr Gly Pro Met Lys Ser Gly Asn Phe Gly Gly Ser Arg Asn Met			
	180	185	190
Gly Gly Pro Tyr Gly Gly Gly Asn Tyr Gly Pro Gly Gly Ser Gly Gly			
	195	200	205

Ser Gly Gly Tyr Gly Gly Arg Ser Arg Tyr
 210 215

<210> 1672

<211> 575

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (555)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1672

Glu Glu Leu Arg Val Arg Glu His Val Thr Gly Gly Ile Cys Gly Gly
 1 5 10 15

Ser Gln Met Met Val Val Leu Leu Gly Ala Thr Thr Leu Val Leu Val
 20 25 30

Ala Val Ala Pro Trp Val Leu Ser Ala Ala Ala Gly Gly Lys Asn Leu
 35 40 45

Lys Ser Pro Gln Lys Val Glu Val Asp Ile Ile Asp Asp Asn Phe Ile
 50 55 60

Leu Arg Trp Asn Arg Ser Asp Glu Ser Val Gly Asn Val Thr Phe Ser
 65 70 75 80

Phe Asp Tyr Gln Lys Thr Gly Met Asp Asn Trp Ile Lys Leu Ser Gly
 85 90 95

Cys Gln Asn Ile Thr Ser Thr Lys Cys Asn Phe Ser Ser Leu Lys Leu
 100 105 110

Asn Val Tyr Glu Glu Ile Lys Leu Arg Ile Arg Ala Glu Lys Glu Asn
 115 120 125

Thr Ser Ser Trp Tyr Glu Val Asp Ser Phe Thr Pro Phe Arg Lys Ala
 130 135 140

Gln Ile Gly Pro Pro Glu Val His Leu Glu Ala Glu Asp Lys Ala Ile
 145 150 155 160

Val Ile His Ile Ser Pro Gly Thr Lys Asp Ser Val Met Trp Ala Leu
165 170 175

Asp Gly Leu Ser Phe Thr Tyr Ser Leu Xaa Ile Trp Lys Asn Ser Ser
180 185 190

Gly Val Glu Glu Arg Ile Glu Asn Ile Tyr Ser Arg His Lys Ile Tyr
195 200 205

Lys Leu Ser Pro Glu Thr Thr Tyr Cys Leu Lys Val Lys Ala Ala Leu
210 215 220

Leu Thr Ser Trp Lys Ile Gly Val Tyr Ser Pro Val His Cys Ile Lys
225 230 235 240

Thr Thr Val Glu Asn Glu Leu Pro Pro Pro Glu Asn Ile Glu Val Ser
245 250 255

Val Gln Asn Gln Asn Tyr Val Leu Lys Trp Asp Tyr Thr Tyr Ala Asn
260 265 270

Met Thr Phe Gln Val Gln Trp Leu His Ala Phe Leu Lys Arg Asn Pro
275 280 285

Gly Asn His Leu Tyr Lys Trp Lys Gln Ile Pro Asp Cys Glu Asn Val
290 295 300

Lys Thr Thr Gln Cys Val Phe Pro Gln Asn Val Phe Gln Lys Gly Ile
305 310 315 320

Tyr Leu Leu Arg Val Gln Ala Ser Asp Gly Asn Asn Thr Ser Phe Trp
325 330 335

Ser Glu Glu Ile Lys Phe Asp Thr Glu Ile Gln Ala Phe Leu Leu Pro
340 345 350

Pro Val Phe Asn Ile Arg Ser Leu Ser Asp Ser Phe His Ile Tyr Ile
355 360 365

Gly Ala Pro Lys Gln Ser Gly Asn Thr Pro Val Ile Gln Asp Tyr Pro
370 375 380

Leu Ile Tyr Glu Ile Ile Phe Trp Glu Asn Thr Ser Asn Ala Glu Arg
385 390 395 400

Lys Ile Ile Glu Lys Lys Thr Asp Val Thr Val Pro Asn Leu Lys Pro
405 410 415

Leu Thr Val Tyr Cys Val Lys Ala Arg Ala His Thr Met Asp Glu Lys
420 425 430

Leu Asn Lys Ser Ser Val Phe Ser Asp Ala Val Cys Glu Lys Thr Lys
 435 440 445

Pro Gly Asn Thr Ser Lys Ile Trp Leu Ile Val Gly Ile Cys Ile Ala
 450 455 460

Leu Phe Ala Leu Pro Phe Val Ile Tyr Ala Ala Lys Val Phe Leu Arg
 465 470 475 480

Cys Ile Asn Tyr Val Phe Phe Pro Ser Leu Lys Pro Ser Ser Ser Ile
 485 490 495

Asp Glu Tyr Phe Ser Glu Gln Pro Leu Lys Asn Leu Leu Leu Ser Thr
 500 505 510

Ser Glu Glu Gln Ile Glu Lys Cys Phe Ile Ile Glu Asn Ile Ser Thr
 515 520 525

Ile Ala Thr Val Glu Glu Thr Asn Gln Thr Asp Glu Asp His Lys Lys
 530 535 540

Tyr Ser Ser Gln Thr Ser Gln Asp Ser Gly Xaa Tyr Ser Asn Glu Asp
 545 550 555 560

Glu Ser Glu Ser Lys Thr Ser Glu Glu Leu Gln Gln Asp Phe Val
 565 570 575

<210> 1673

<211> 571

<212> PRT

<213> Homo sapiens

<400> 1673

Asp Ala Trp Glu Leu Ser Arg Gly Gly Pro Phe Glu Arg Ile Ala Leu
 1 5 10 15

Gln Pro Leu Ile Pro Pro Ala Ser Pro Pro Val Glu Ala Gln Ala Arg
 20 25 30

Phe Ala Ala Phe Ser Leu Cys Leu Ile Thr Met Ser Thr Asn Glu Asn
 35 40 45

Ala Asn Thr Pro Ala Ala Arg Leu His Arg Phe Lys Asn Lys Gly Lys
 50 55 60

Asp Ser Thr Glu Met Arg Arg Arg Arg Ile Glu Val Asn Val Glu Leu
 65 70 75 80

Arg Lys Ala Lys Lys Asp Asp Gln Met Leu Lys Arg Arg Asn Val Ser
85 90 95

Ser Phe Pro Asp Asp Ala Thr Ser Pro Leu Gln Glu Asn Arg Asn Asn
100 105 110

Gln Gly Thr Val Asn Trp Ser Val Asp Asp Ile Val Lys Gly Ile Asn
115 120 125

Ser Ser Asn Val Glu Asn Gln Leu Gln Ala Thr Gln Ala Ala Arg Lys
130 135 140

Leu Leu Ser Arg Glu Lys Gln Pro Pro Ile Asp Asn Ile Ile Arg Ala
145 150 155 160

Gly Leu Ile Pro Lys Phe Val Ser Phe Leu Gly Arg Thr Asp Cys Ser
165 170 175

Pro Ile Gln Phe Glu Ser Ala Trp Ala Leu Thr Asn Ile Ala Ser Gly
180 185 190

Thr Ser Glu Gln Thr Lys Ala Val Val Asp Gly Gly Ala Ile Pro Ala
195 200 205

Phe Ile Ser Leu Leu Ala Ser Pro His Ala His Ile Ser Glu Gln Ala
210 215 220

Val Trp Ala Leu Gly Asn Ile Ala Gly Asp Gly Ser Val Phe Arg Asp
225 230 235 240

Leu Val Ile Lys Tyr Gly Ala Val Asp Pro Leu Leu Ala Leu Leu Ala
245 250 255

Val Pro Asp Met Ser Ser Leu Ala Cys Gly Tyr Leu Arg Asn Leu Thr
260 265 270

Trp Thr Leu Ser Asn Leu Cys Arg Asn Lys Asn Pro Ala Pro Pro Ile
275 280 285

Asp Ala Val Glu Gln Ile Leu Pro Thr Leu Val Arg Leu Leu His His
290 295 300

Asp Asp Pro Glu Val Leu Ala Asp Thr Cys Trp Ala Ile Ser Tyr Leu
305 310 315 320

Thr Asp Gly Pro Asn Glu Arg Ile Gly Met Val Val Lys Thr Gly Val
325 330 335

Val Pro Gln Leu Val Lys Leu Leu Gly Ala Ser Glu Leu Pro Ile Val
340 345 350

Thr Pro Ala Leu Arg Ala Ile Gly Asn Ile Val Thr Gly Thr Asp Glu
355 360 365

Gln Thr Gln Val Val Ile Asp Ala Gly Ala Leu Ala Val Phe Pro Ser
370 375 380

Leu Leu Thr Asn Pro Lys Thr Asn Ile Gln Lys Glu Ala Thr Trp Thr
385 390 395 400

Met Ser Asn Ile Thr Ala Gly Arg Gln Asp Gln Ile Gln Gln Val Val
405 410 415

Asn His Gly Leu Val Pro Phe Leu Val Ser Val Leu Ser Lys Ala Asp
420 425 430

Phe Lys Thr Gln Lys Glu Ala Val Trp Ala Val Thr Asn Tyr Thr Ser
435 440 445

Gly Gly Thr Val Glu Gln Ile Val Tyr Leu Val His Cys Gly Ile Ile
450 455 460

Glu Pro Leu Met Asn Leu Leu Thr Ala Lys Asp Thr Lys Ile Ile Leu
465 470 475 480

Val Ile Leu Asp Ala Ile Ser Asn Ile Phe Gln Ala Ala Glu Lys Leu
485 490 495

Gly Glu Thr Glu Lys Leu Ser Ile Met Ile Glu Glu Cys Gly Gly Leu
500 505 510

Asp Lys Ile Glu Ala Leu Gln Asn His Glu Asn Glu Ser Val Tyr Lys
515 520 525

Ala Ser Leu Ser Leu Ile Glu Lys Tyr Phe Ser Val Glu Glu Glu Glu
530 535 540

Asp Gln Asn Val Val Pro Glu Thr Thr Ser Glu Gly Tyr Thr Phe Gln
545 550 555 560

Val Gln Asp Gly Ala Pro Gly Thr Phe Asn Phe
565 570

<210> 1674

<211> 375

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (338)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (340)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (356)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (372)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1674

Ser Glu Pro Leu Gly Arg Phe Leu Leu Phe Arg Arg Leu His Ser Val
1 5 10 15

Pro Arg Gly Ser Ala Leu Cys Ala Met Asp Gly Ile Val Pro Asp Ile
20 25 30

Ala Val Gly Thr Lys Arg Gly Ser Asp Glu Leu Phe Ser Thr Cys Val
35 40 45

Thr Asn Gly Pro Phe Ile Met Ser Ser Asn Ser Ala Ser Ala Ala Asn
50 55 60

Gly Asn Asp Ser Lys Lys Phe Lys Gly Asp Ser Arg Ser Ala Gly Val
65 70 75 80

Pro Ser Arg Val Ile His Ile Arg Lys Leu Pro Ile Asp Val Thr Glu
85 90 95

Gly Glu Val Ile Ser Leu Gly Leu Pro Phe Gly Lys Val Thr Asn Leu
100 105 110

Leu Met Leu Lys Gly Lys Asn Gln Ala Phe Ile Glu Met Asn Thr Glu
115 120 125

Glu Ala Ala Asn Thr Met Val Asn Tyr Tyr Thr Ser Val Thr Pro Val
130 135 140

Leu Arg Gly Gln Pro Ile Tyr Ile Gln Phe Ser Asn His Lys Glu Leu
145 150 155 160

Lys Thr Asp Ser Ser Pro Asn Gln Ala Arg Ala Gln Ala Ala Leu Gln
165 170 175

Ala Val Asn Ser Val Gln Ser Gly Asn Leu Ala Leu Ala Ala Ser Ala
180 185 190

Ala Ala Val Asp Ala Gly Met Ala Met Ala Gly Gln Ser Pro Val Leu
195 200 205

Arg Ile Ile Val Glu Asn Leu Phe Tyr Pro Val Thr Leu Asp Val Leu
210 215 220

His Gln Ile Phe Ser Lys Phe Gly Thr Val Leu Lys Ile Ile Thr Phe
225 230 235 240

Thr Lys Asn Asn Gln Phe Gln Ala Leu Leu Gln Tyr Ala Asp Pro Val
245 250 255

Ser Ala Gln His Ala Lys Leu Ser Leu Asp Gly Gln Asn Ile Tyr Asn
260 265 270

Ala Cys Cys Thr Leu Arg Ile Asp Phe Ser Lys Leu Thr Ser Leu Asn
275 280 285

Val Lys Tyr Asn Asn Asp Lys Ser Arg Asp Tyr Thr Arg Pro Asp Leu
290 295 300

Pro Ser Gly Asp Ser Gln Pro Ser Leu Asp Gln Thr Met Ala Ala Ala
305 310 315 320

Phe Gly Ala Pro Gly Ile Ile Ser Ala Ser Pro Tyr Ala Gly Ala Gly
325 330 335

Phe Xaa Pro Xaa Phe Ala Ile Pro Gln Ala Ala Gly Phe Pro Phe Arg
340 345 350

Thr Ser Thr Xaa Pro Trp Pro Leu Ala Arg Thr Glu Pro Arg Trp Leu
355 360 365

Leu Ile Ala Xaa Gly Thr Ala
370 375

<210> 1675

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1675

Pro Arg Phe Ser Val Phe Cys Ser Arg Leu Arg Arg Glu Arg Arg Arg
1 5 10 15
Arg Trp Arg Leu Arg Arg Glu Thr Ala Arg Arg Ser Glu Arg Ala Leu
20 25 30
Arg Leu Pro Pro Pro Gln Gln Arg Arg Arg Arg Arg His Arg Ser Ser
35 40 45
Pro Asp Arg Ser Arg Ser Leu Pro Ser Pro Ala Ile Arg Ala Pro Leu
50 55 60
Pro Asp Leu Tyr Pro Phe Gly Thr Met Arg Gly Gly Gly Phe Gly Asp
65 70 75 80
Arg Asp Arg Asp Arg Asp Arg Gly Gly Phe Gly Ala Arg Gly Gly Gly
85 90 95
Gly Leu Pro Pro Lys Lys Phe Gly Asn Pro Gly Glu Arg Leu Arg Lys
100 105 110
Lys Lys Trp Asp Leu Ser Glu Leu Pro Lys Phe Glu Lys Asn Phe Tyr
115 120 125
Val Glu His Pro Glu Val Ala Arg Leu Thr Pro Tyr Glu Val Asp Glu
130 135 140
Leu Arg Arg Lys Lys Glu Ile Thr Val Arg Gly Gly Asp Val Cys Pro
145 150 155 160
Lys Pro Val Phe Ala Phe His His Ala Asn Phe Pro Gln Tyr Val Met
165 170 175
Asp Val Leu Met Asp Ser Arg Thr Leu Gln Asp Asn Ile Xaa Gly Arg
180 185 190

Leu

<210> 1676

<211> 365

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1676

His	Glu	Gly	Met	Phe	Pro	Pro	Phe	Lys	Val	Arg	Cys	Ser	Gly	Leu	Asp	1	5	10	15
Lys	Lys	Ala	Lys	Tyr	Ile	Leu	Leu	Met	Asp	Ile	Ile	Ala	Ala	Asp	Asp	20	25	30	
Cys	Arg	Tyr	Lys	Phe	His	Asn	Ser	Arg	Trp	Met	Val	Ala	Gly	Xaa	Ala	35	40	45	
Asp	Pro	Glu	Met	Pro	Lys	Arg	Met	Tyr	Ile	His	Pro	Asp	Ser	Pro	Ala	50	55	60	
Thr	Gly	Glu	Gln	Trp	Met	Ser	Lys	Val	Val	Thr	Phe	His	Lys	Leu	Lys	65	70	75	80
Leu	Thr	Asn	Asn	Ile	Ser	Asp	Lys	His	Gly	Phe	Thr	Leu	Ala	Phe	Pro	85	90	95	
Ser	Asp	His	Ala	Thr	Trp	Gln	Gly	Asn	Tyr	Ser	Phe	Gly	Thr	Gln	Thr	100	105	110	
Ile	Leu	Asn	Ser	Met	His	Lys	Tyr	Gln	Pro	Arg	Phe	His	Ile	Val	Arg	115	120	125	
Ala	Asn	Asp	Ile	Leu	Lys	Leu	Pro	Tyr	Ser	Thr	Phe	Arg	Thr	Tyr	Leu	130	135	140	
Phe	Pro	Glu	Thr	Glu	Phe	Ile	Ala	Val	Thr	Ala	Tyr	Gln	Asn	Asp	Lys	145	150	155	160
Ile	Thr	Gln	Leu	Lys	Ile	Asp	Asn	Asn	Pro	Phe	Ala	Lys	Gly	Phe	Arg	165	170	175	
Asp	Thr	Gly	Asn	Gly	Arg	Arg	Glu	Lys	Arg	Lys	Gln	Leu	Thr	Leu	Gln	180	185	190	
Ser	Met	Arg	Val	Phe	Asp	Glu	Arg	His	Lys	Lys	Glu	Asn	Gly	Thr	Ser	195	200	205	
Asp	Glu	Ser	Ser	Ser	Glu	Gln	Ala	Ala	Phe	Asn	Xaa	Phe	Ala	Gln	Ala	210	215	220	
Ser	Ser	Pro	Ala	Ala	Ser	Thr	Val	Gly	Thr	Ser	Asn	Leu	Lys	Asp	Leu				

225 230 235 240
 Cys Pro Ser Glu Gly Glu Ser Asp Ala Glu Ala Glu Ser Lys Glu Glu
 245 250 255
 His Gly Pro Glu Ala Cys Asp Ala Ala Lys Ile Ser Thr Thr Thr Ser
 260 265 270
 Glu Glu Pro Cys Arg Asp Lys Gly Ser Pro Ala Val Lys Ala His Leu
 275 280 285
 Phe Ala Ala Glu Arg Pro Arg Asp Ser Gly Arg Leu Asp Lys Ala Ser
 290 295 300
 Pro Asp Ser Arg His Ser Pro Ala Thr Ile Ser Ser Ser Thr Arg Gly
 305 310 315 320
 Leu Gly Ala Glu Glu Arg Arg Ser Pro Val Arg Glu Gly Thr Ala Pro
 325 330 335
 Ala Lys Val Glu Glu Ala Arg Ala Leu Pro Gly Lys Glu Ala Phe Ala
 340 345 350
 Pro Leu Thr Val Gln Thr Asp Ala Ala Ala Ser Leu Phe
 355 360 365

<210> 1677

<211> 668

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1677

His Met Val Leu Arg Pro Phe Leu Leu Arg Arg Ile Lys Ala Asp Val
 1 5 10 15

Glu Lys Ser Leu Pro Pro Lys Lys Glu Val Lys Ile Tyr Val Gly Leu
 20 25 30

Ser Lys Met Gln Arg Glu Trp Tyr Thr Arg Ile Leu Met Lys Asp Ile

35	40	45
Asp Ile Leu Asn Ser Ala Gly Lys Met Asp Lys Met Arg Leu Leu Asn		
50	55	60
Ile Leu Met Gln Leu Xaa Xaa Cys Cys Asn His Pro Tyr Leu Phe Asp		
65	70	75 80
Gly Ala Glu Pro Gly Pro Pro Tyr Thr Thr Asp Met His Leu Val Thr		
	85 90	95
Asn Ser Gly Lys Met Val Val Leu Asp Lys Leu Leu Pro Lys Leu Lys		
	100 105	110
Glu Gln Gly Ser Arg Val Leu Ile Phe Ser Gln Met Thr Arg Val Leu		
	115 120	125
Asp Ile Leu Glu Asp Tyr Cys Met Trp Arg Asn Tyr Glu Tyr Cys Arg		
130	135	140
Leu Asp Gly Gln Thr Pro His Asp Glu Arg Gln Asp Ser Ile Asn Ala		
145	150	155 160
Tyr Asn Glu Pro Asn Ser Thr Lys Phe Val Phe Met Leu Ser Thr Arg		
	165 170	175
Ala Gly Gly Leu Gly Ile Asn Leu Ala Thr Ala Asp Val Val Ile Leu		
	180 185	190
Tyr Asp Ser Asp Trp Asn Pro Gln Val Asp Leu Gln Ala Met Asp Arg		
	195 200	205
Ala His Arg Ile Gly Gln Thr Lys Thr Val Arg Val Phe Arg Phe Ile		
210	215	220
Thr Asp Asn Thr Val Glu Glu Arg Ile Val Glu Arg Ala Glu Met Lys		
225	230	235 240
Leu Arg Leu Asp Ser Ile Val Ile Gln Gln Gly Arg Leu Val Asp Gln		
	245 250	255
Asn Leu Asn Lys Ile Gly Lys Asp Glu Met Leu Gln Met Ile Arg His		
	260 265	270
Gly Ala Thr His Val Phe Ala Ser Lys Glu Ser Glu Ile Thr Asp Glu		
	275 280	285
Asp Ile Asp Gly Ile Leu Glu Arg Gly Ala Lys Lys Thr Ala Glu Met		
290	295	300
Asn Glu Lys Leu Ser Lys Met Gly Glu Ser Ser Leu Arg Asn Phe Thr		

305					310					315					320
Met	Asp	Thr	Glu	Ser	Ser	Val	Tyr	Asn	Phe	Glu	Gly	Glu	Asp	Tyr	Arg
				325					330					335	
Glu	Lys	Gln	Lys	Ile	Ala	Phe	Thr	Glu	Trp	Ile	Glu	Pro	Pro	Lys	Arg
			340					345					350		
Glu	Arg	Lys	Ala	Asn	Tyr	Ala	Val	Asp	Ala	Tyr	Phe	Arg	Glu	Ala	Leu
		355					360					365			
Arg	Val	Ser	Glu	Pro	Lys	Ala	Pro	Lys	Ala	Pro	Arg	Pro	Pro	Lys	Gln
	370					375					380				
Pro	Asn	Val	Gln	Asp	Phe	Gln	Phe	Phe	Pro	Pro	Arg	Leu	Phe	Glu	Leu
385					390					395					400
Leu	Glu	Lys	Glu	Ile	Leu	Phe	Tyr	Arg	Lys	Thr	Ile	Gly	Tyr	Lys	Val
				405					410					415	
Pro	Arg	Asn	Pro	Glu	Leu	Pro	Asn	Ala	Ala	Gln	Ala	Gln	Lys	Glu	Glu
			420					425					430		
Gln	Leu	Lys	Ile	Asp	Glu	Ala	Glu	Ser	Leu	Asn	Asp	Glu	Glu	Leu	Glu
		435					440					445			
Glu	Lys	Glu	Lys	Leu	Leu	Thr	Gln	Gly	Phe	Thr	Asn	Trp	Asn	Lys	Arg
	450					455					460				
Asp	Phe	Asn	Gln	Phe	Ile	Lys	Ala	Asn	Glu	Lys	Trp	Gly	Arg	Asp	Asp
465					470					475					480
Ile	Glu	Asn	Ile	Ala	Arg	Glu	Val	Glu	Gly	Lys	Thr	Pro	Glu	Glu	Val
				485					490					495	
Ile	Glu	Tyr	Ser	Ala	Val	Phe	Trp	Glu	Arg	Cys	Asn	Glu	Leu	Gln	Asp
			500					505					510		
Ile	Glu	Lys	Ile	Met	Ala	Gln	Ile	Glu	Arg	Gly	Glu	Ala	Arg	Ile	Gln
		515					520					525			
Arg	Arg	Ile	Ser	Ile	Lys	Lys	Ala	Leu	Asp	Thr	Lys	Ile	Gly	Arg	Tyr
	530					535					540				
Lys	Ala	Pro	Phe	His	Gln	Leu	Arg	Ile	Ser	Tyr	Gly	Thr	Asn	Lys	Gly
545					550					555					560
Lys	Asn	Tyr	Thr	Glu	Glu	Glu	Asp	Arg	Phe	Leu	Ile	Cys	Met	Leu	His
				565					570					575	
Lys	Leu	Gly	Phe	Asp	Lys	Glu	Asn	Val	Tyr	Asp	Glu	Leu	Arg	Gln	Cys

580 585 590
 Ile Arg Asn Ser Pro Gln Phe Arg Phe Asp Trp Phe Leu Lys Ser Arg
 595 600 605
 Thr Ala Met Glu Leu Gln Arg Arg Cys Asn Thr Leu Ile Thr Leu Ile
 610 615 620
 Glu Arg Glu Asn Met Glu Leu Glu Glu Lys Glu Lys Ala Glu Lys Lys
 625 630 635 640
 Lys Arg Gly Pro Lys Pro Ser Thr Gln Lys Arg Lys Met Asp Gly Ala
 645 650 655
 Pro Asp Gly Arg Gly Arg Lys Lys Lys Leu Lys Leu
 660 665

<210> 1678

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1678

Gly Arg Lys Arg Pro Leu Pro Xaa Lys Gly Trp Ser Arg Ala Gly Ala
 1 5 10 15
 Met Trp Ser Ala Gly Arg Gly Gly Ala Ala Trp Pro Val Leu Leu Gly
 20 25 30
 Leu Leu Leu Ala Leu Leu Val Pro Gly Gly Gly Ala Ala Lys Thr Gly
 35 40 45
 Ala Glu Leu Val Thr Cys Gly Ser Val Leu Lys Leu Leu Asn Thr His
 50 55 60
 His Arg Val Arg Leu His Ser His Asp Ile Lys Tyr Gly Ser Gly Ser
 65 70 75 80
 Gly Gln Gln Ser Val Thr Gly Val Glu Ala Ser Asp Asp Ala Asn Ser
 85 90 95
 Tyr Trp Arg Ile Arg Gly Gly Ser Glu Gly Gly Cys Pro Arg Gly Ser
 100 105 110

Pro Val Arg Cys Gly Gln Ala Val Arg Leu Thr His Val Leu Thr Gly
115 120 125

Lys Asn Leu His Thr His His Phe Pro Ser Pro Leu Ser Asn Asn Gln
130 135 140

Glu Val Ser Ala Phe Gly Glu Asp Gly Glu Gly Asp Asp Leu Asp Leu
145 150 155 160

Trp Thr Val Arg Cys Ser Gly Gln His Trp Glu Arg Glu Ala Ala Val
165 170 175

Arg Phe Gln His Val Gly Thr Ser Val Phe Leu Ser Val Thr Gly Glu
180 185 190

Gln Tyr Gly Ser Pro Ile Arg Gly Gln His Glu Val His Gly Met Pro
195 200 205

Ser Ala Asn Thr His Asn Thr Trp Lys Ala Met Glu Gly Ile Phe Ile
210 215 220

Lys Pro Ser Val Glu Pro Ser Ala Gly His Asp Glu Leu
225 230 235

<210> 1679

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1679

Glu His Tyr Ser Cys Phe Leu Phe Gln Asn Pro Thr Pro His Pro Ser
1 5 10 15

Cys Asp Ala Met Ser Thr Asn Ile Cys Ser Phe Lys Asp Arg Cys Val

20 25 30
Ser Ile Leu Cys Cys Lys Phe Cys Lys Gln Val Leu Ser Ser Arg Gly
35 40 45
Met Lys Ala Val Leu Leu Ala Asp Thr Glu Ile Asp Leu Phe Ser Thr
50 55 60
Asp Ile Pro Pro Thr Asn Ala Val Asp Phe Thr Gly Arg Cys Tyr Phe
65 70 75 80
Thr Lys Ile Cys Lys Cys Lys Leu Lys Asp Ile Ala Cys Leu Lys Cys
85 90 95
Gly Asn Ile Val Xaa Tyr His Val Ile Val Pro Cys Ser Ser Cys Leu
100 105 110
Leu Ser Cys Asn Asn Xaa His Phe Trp Met Phe His Ser Gln Ala Val
115 120 125
Tyr Asp Ile Asn Arg Leu Asp Ser Thr Gly Val Asn Val Leu Leu Xaa
130 135 140
Gly Asn Leu Pro Glu Ile Glu Glu Ser Thr Asp Glu Asp Val Leu Asn
145 150 155 160
Ile Ser Ala Glu Glu Cys Ile Arg
165

<210> 1680

<211> 519

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (321)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (332)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (333)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (337)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (511)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1680

Lys Thr Glu Arg Lys Gln Glu Gly Arg Ser Leu Leu Phe Glu Phe Val
1 5 10 15

Ala Arg Glu Ala Leu Gln Ser Gly Leu Ala Leu Gly Tyr Trp Leu Gly
20 25 30

Pro Met Leu Gly Thr Leu Arg Ala Met Glu Gly Glu Asp Val Glu Asp
35 40 45

Asp Gln Leu Leu Gln Lys Leu Arg Ala Ser Arg Arg Arg Phe Gln Arg
50 55 60

Arg Met Gln Arg Leu Ile Glu Lys Tyr Asn Gln Pro Phe Glu Asp Thr
65 70 75 80

Pro Val Val Gln Met Ala Thr Leu Thr Tyr Glu Thr Pro Gln Gly Leu
85 90 95

Arg Ile Trp Gly Gly Arg Leu Ile Lys Glu Arg Asn Lys Gly Glu Ile
100 105 110

Gln Asp Ser Ser Met Lys Pro Ala Asp Arg Thr Asp Gly Ser Val Gln
115 120 125

Ala Ala Ala Trp Gly Pro Glu Leu Pro Ser His Arg Thr Val Leu Gly
130 135 140

Ala Asp Ser Lys Ser Gly Glu Val Asp Ala Thr Ser Asp Gln Glu Glu
145 150 155 160

Ser Val Ala Trp Ala Leu Ala Pro Ala Val Pro Gln Ser Pro Leu Lys
165 170 175

Asn Glu Leu Arg Arg Lys Tyr Leu Thr Gln Val Asp Ile Leu Leu Gln
180 185 190

Gly Ala Glu Tyr Phe Glu Cys Ala Gly Asn Arg Ala Gly Arg Asp Val
195 200 205

Arg Val Thr Pro Leu Pro Ser Leu Ala Ser Pro Ala Val Pro Ala Pro

210	215	220
Gly Tyr Cys Ser Arg Ile Ser Gly Lys Ser Pro Gly Asp Pro Ala Lys		
225	230	235 240
Pro Ala Ser Ser Pro Arg Glu Trp Asp Pro Leu His Pro Ser Ser Thr		
	245	250 255
Asp Met Ala Leu Val Pro Arg Asn Asp Ser Leu Ser Leu Gln Glu Thr		
	260	265 270
Ser Ser Ser Ser Phe Leu Ser Ser Gln Pro Phe Glu Asp Asp Asp Ile		
	275	280 285
Cys Asn Val Thr Ile Ser Asp Leu Tyr Ala Gly Met Leu His Ser Met		
	290	295 300
Ser Arg Leu Leu Ser Thr Lys Pro Ser Ser Ile Ile Ser Thr Lys Thr		
	305	310 315 320
Xaa Ile Met Gln Asn Trp Asn Ser Arg Arg Arg Xaa Xaa Tyr Lys Ser		
	325	330 335
Xaa Met Asn Lys Thr Tyr Cys Lys Gly Ala Arg Arg Ser Gln Arg Ser		
	340	345 350
Ser Lys Glu Asn Phe Ile Pro Cys Ser Glu Pro Val Lys Gly Thr Gly		
	355	360 365
Ala Leu Arg Asp Cys Lys Asn Val Leu Asp Val Ser Cys Arg Lys Thr		
	370	375 380
Gly Leu Lys Leu Glu Lys Ala Phe Leu Glu Val Asn Arg Pro Gln Ile		
	385	390 395 400
His Lys Leu Asp Pro Ser Trp Lys Glu Arg Lys Val Thr Pro Ser Lys		
	405	410 415
Tyr Ser Ser Leu Ile Tyr Phe Asp Ser Ser Ala Thr Tyr Asn Leu Asp		
	420	425 430
Glu Glu Asn Arg Phe Arg Thr Leu Lys Trp Leu Ile Ser Pro Val Lys		
	435	440 445
Ile Val Ser Arg Pro Thr Ile Arg Gln Gly His Gly Glu Asn Arg Gln		
	450	455 460
Arg Glu Ile Glu Ile Arg Phe Asp Gln Leu His Arg Glu Tyr Cys Leu		
	465	470 475 480
Ser Pro Arg Asn Gln Pro Arg Arg Met Cys Leu Pro Asp Ser Trp Ala		

485 490 495
 Met Asn Met Tyr Arg Gly Gly Pro Ala Lys Ser Trp Trp Pro Xaa Gly
 500 505 510

 Leu Lys Thr Arg Lys Leu Ser
 515

 <210> 1681
 <211> 371
 <212> PRT
 <213> Homo sapiens

 <400> 1681
 Val Pro Cys Tyr Arg Arg Val Phe Ile Val Ser Ser Ser Gln Leu Gly
 1 5 10 15

 Glu Gln Leu Lys Gln Leu Val Pro Ala Ser Gly Leu Thr Val Met Asp
 20 25 30

 Leu Glu Ala Glu Gly Thr Cys Leu Arg Phe Ser Pro Leu Met Thr Ala
 35 40 45

 Ala Val Leu Gly Thr Arg Gly Glu Asp Val Asp Gln Leu Val Ala Cys
 50 55 60

 Ile Glu Ser Lys Leu Pro Val Leu Cys Cys Thr Leu Gln Leu Arg Glu
 65 70 75 80

 Glu Phe Lys Gln Glu Val Glu Ala Thr Ala Gly Leu Leu Tyr Val Asp
 85 90 95

 Asp Pro Asn Trp Ser Gly Ile Gly Val Val Arg Tyr Glu His Ala Asn
 100 105 110

 Asp Asp Lys Ser Ser Leu Lys Ser Asp Pro Glu Gly Glu Asn Ile His
 115 120 125

 Ala Gly Leu Leu Lys Lys Leu Asn Glu Leu Glu Ser Asp Leu Thr Phe
 130 135 140

 Lys Ile Gly Pro Glu Tyr Lys Ser Met Lys Ser Cys Leu Tyr Val Gly
 145 150 155 160

 Met Ala Ser Asp Asn Val Asp Ala Ala Glu Leu Val Glu Thr Ile Ala
 165 170 175

 Ala Thr Ala Arg Glu Ile Glu Glu Asn Ser Arg Leu Leu Glu Asn Met
 180 185 190

Thr Glu Val Val Arg Lys Gly Ile Gln Glu Ala Gln Val Glu Leu Gln
195 200 205

Lys Ala Ser Glu Glu Arg Leu Leu Glu Glu Gly Val Leu Arg Gln Ile
210 215 220

Pro Val Val Gly Ser Val Leu Asn Trp Phe Ser Pro Val Gln Ala Leu
225 230 235 240

Gln Lys Gly Arg Thr Phe Asn Leu Thr Ala Gly Ser Leu Glu Ser Thr
245 250 255

Glu Pro Ile Tyr Val Tyr Lys Ala Gln Gly Ala Gly Val Thr Leu Pro
260 265 270

Pro Thr Pro Ser Gly Ser Arg Thr Lys Gln Arg Leu Pro Gly Gln Lys
275 280 285

Pro Phe Lys Arg Ser Leu Arg Gly Ser Asp Ala Leu Ser Glu Thr Ser
290 295 300

Ser Val Ser His Ile Glu Asp Leu Glu Lys Val Glu Arg Leu Ser Ser
305 310 315 320

Gly Pro Glu Gln Ile Thr Leu Glu Ala Ser Ser Thr Glu Gly His Pro
325 330 335

Gly Ala Pro Ser Pro Gln His Thr Asp Gln Thr Glu Ala Phe Gln Lys
340 345 350

Gly Val Pro His Pro Glu Asp Asp His Ser Gln Val Glu Gly Pro Glu
355 360 365

Ser Leu Arg
370

<210> 1682

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1682

Ser Xaa Arg Gly Thr Ser Pro Ser Glu Phe Tyr Phe Met Phe Gln Gln
1 5 10 15

Val Arg Val Lys Pro Gln Asp Phe Ala Ala Ile Thr Ile Pro Arg Ser
20 25 30

Arg Gly Glu Ala Arg Val Gly Ala Gly Phe Arg Pro Met Leu Pro Ser
35 40 45

Gln Gly Ala Pro Gln Arg Pro Leu Ser Thr Phe Ser Pro Ala Pro Lys
50 55 60

Ala Thr Leu Ile Xaa Asn Ser Ile Gly Ser Leu Ser Lys Leu Arg Pro
65 70 75 80

Gln Pro Leu Thr Phe Ser Pro Ser Trp Gly Gly Pro Lys Ser Leu Pro
85 90 95

Val Pro Ala Pro Pro Gly Glu Met Gly Thr Thr Pro Ser Ala Pro Pro
100 105 110

Gln Arg Asn Arg Arg Lys Ser Val His Arg Val Leu Ala Glu Leu Asp
115 120 125

Asp Glu Ser Glu Pro Pro Glu Asn Pro Pro Pro Val Leu Met Glu Pro
130 135 140

Xaa Lys Lys Leu Arg Val Asp Lys Ala Pro Leu Thr Pro Thr Gly Asn
145 150 155 160

Arg Arg Gly Arg Pro Arg Lys Tyr Pro Val Ser Ala Pro Met Ala Pro
165 170 175

Pro Ala Val Gly Gly Gly Glu Pro Cys Ala Ala Pro Cys Cys Cys Leu
 180 185 190

Pro Gln Glu Glu Thr Val Ala Trp Val Gln Cys Asp Gly Cys Asp Val
 195 200 205

Trp Phe His Val Ala Cys Xaa Gly Cys Ser Ile Gln Ala Ala Arg Glu
 210 215 220

Ala Asp Phe Xaa Cys Pro Gly Cys Arg Ala Gly Ile Gln Thr
 225 230 235

<210> 1683

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1683

Met Ile Ala Thr Glu Thr Gln Ser Ser Phe Phe Ala Arg Val Phe Trp
 1 5 10 15

Gly Phe Cys Pro Lys Ile Tyr Pro Gly His Ser Ile Thr Ala Val Leu
 20 25 30

Asp Val Tyr Pro Lys Leu Pro His His Pro Ser Thr His Ser Cys Thr
 35 40 45

Phe Ile Tyr Leu Phe Cys Ser Ser Leu Gly Asp Arg Val Arg Leu Arg
 50 55 60

Leu Gly
 65

<210> 1684

<211> 119

<212> PRT

<213> Homo sapiens

<400> 1684

Trp Pro Leu Glu Phe Val Trp Pro Pro Pro Arg Glu Arg Glu Pro Gly
 1 5 10 15

Asn Phe Ser Thr Glu Lys Gly Glu Ala Phe Gly Leu Cys Arg Val Arg
 20 25 30

Val Ser Lys Cys Pro Ala Pro Ala Gly Met Glu Asp Pro Gln Ser Lys

35 40 45
Glu Pro Ala Gly Glu Ala Val Ala Leu Ala Leu Leu Glu Ser Pro Arg
50 55 60
Pro Glu Gly Gly Glu Glu Pro Pro Arg Pro Ser Pro Glu Glu Thr Gln
65 70 75 80
Gln Cys Lys Phe Asp Gly Gln Glu Thr Lys Gly Ser Lys Phe Ile Thr
85 90 95
Ser Ser Ala Ser Asp Phe Ser Asp Pro Val Tyr Lys Glu Ile Ala Ile
100 105 110
Thr Asn Gly Cys Ile Asn Arg
115

<210> 1685

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1685

Ile Val Phe Leu Pro Glu Asp Ser Tyr Leu His Val Ser Gln Gly Leu
1 5 10 15
Gln Phe Phe Tyr Lys Phe Pro Tyr Pro Lys Phe Arg Ile His Val Lys
20 25 30
Tyr Phe Phe Gly Ala Lys Val Leu His Ser Trp Tyr Leu Leu Asp Trp
35 40 45
Lys Ser Val Ala Arg Cys Cys Leu Lys Leu Pro Tyr Cys Phe Phe Ile
50 55 60
Leu Tyr Leu Ala Leu Trp Leu Leu Asn Phe Leu Phe Leu Phe Glu Val
65 70 75 80
Ser Phe Lys Phe Ala Pro Met Leu Asn Tyr Leu
85 90

<210> 1686

<211> 141

<212> PRT

<213> Homo sapiens

<400> 1686

Glu Ala Val Ala Glu Val Ser Ser Leu Phe Pro Arg Leu Phe Gln Ile
1 5 10 15
Phe Val Ile Ala Val Val Ser Leu Val Ile Leu Pro Arg Ile Val Ile
20 25 30
Phe Arg Arg Met Ala Cys Tyr Asn Cys Gly Arg Gly Gly His Ile Ala
35 40 45
Lys Asp Cys Lys Glu Pro Lys Arg Glu Arg Glu Gln Cys Cys Tyr Asn
50 55 60
Cys Gly Lys Pro Gly His Leu Ala Arg Asp Cys Asp His Ala Asp Glu
65 70 75 80
Gln Lys Cys Tyr Ser Cys Gly Glu Phe Gly His Ile Gln Lys Asp Cys
85 90 95
Thr Lys Val Lys Cys Tyr Arg Cys Gly Glu Thr Gly His Val Ala Ile
100 105 110
Asn Cys Ser Lys Thr Ser Glu Val Asn Cys Tyr Arg Cys Gly Glu Ser
115 120 125
Gly His Leu Ala Arg Glu Cys Thr Ile Glu Ala Thr Ala
130 135 140

<210> 1687

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1687

Phe Trp Ile Pro Trp Trp Arg Lys Ile Lys His Ser Gly Leu Ala Ala
1 5 10 15
Asn Asp Ala Ser Val Thr Ala Gly Val Phe Met Ser Ser Arg Gly His
20 25 30
Ser Thr Leu Pro Arg Thr Leu Met Ala Pro Arg Met Ile Ser Glu Gly
35 40 45
Asp Ile Gly Gly Ile Ala Gln Ile Thr Ser Ser Leu Phe Leu Gly Arg
50 55 60
Gly Ser Val Ala Ser Asn Arg His Leu Leu Gln Ala Arg Gly His His
65 70 75 80
Leu His Cys

<210> 1688

<211> 153

<212> PRT

<213> Homo sapiens

<400> 1688

Arg Arg His Pro Ala Val Val Ala Glu Val Ser Pro Ala Tyr Phe Leu
1 5 10 15

Phe Pro Ser Glu Arg Ala Ala Ala Leu Ala Ala Cys Ala Ala Met Ala
20 25 30

Lys Ile Lys Ala Arg Asp Leu Arg Gly Lys Lys Lys Glu Glu Leu Leu
35 40 45

Lys Gln Leu Asp Asp Leu Lys Val Glu Leu Ser Gln Leu Arg Val Ala
50 55 60

Lys Val Thr Gly Gly Ala Ala Ser Lys Leu Ser Lys Ile Arg Val Val
65 70 75 80

Arg Lys Ser Ile Ala Arg Val Leu Thr Val Ile Asn Gln Thr Gln Lys
85 90 95

Glu Asn Leu Arg Lys Phe Tyr Lys Gly Lys Lys Tyr Lys Pro Leu Asp
100 105 110

Leu Arg Pro Lys Lys Thr Arg Ala Met Arg Arg Arg Leu Asn Lys His
115 120 125

Glu Glu Asn Leu Lys Thr Lys Lys Gln Gln Arg Lys Glu Arg Leu Tyr
130 135 140

Pro Leu Arg Lys Tyr Ala Val Lys Ala
145 150

<210> 1689

<211> 130

<212> PRT

<213> Homo sapiens

<400> 1689

Gly Gly Gly Asp Ala Glu Met Gly Ala Ala Ala Glu Ala Asp Arg
1 5 10 15

Thr Leu Phe Val Gly Asn Leu Glu Thr Lys Val Thr Glu Glu Leu Leu
 20 25 30
 Phe Glu Leu Phe His Gln Ala Gly Pro Val Ile Lys Val Lys Ile Pro
 35 40 45
 Lys Asp Lys Asp Gly Lys Pro Lys Gln Phe Ala Phe Val Asn Phe Lys
 50 55 60
 His Glu Val Ser Val Pro Tyr Ala Met Asn Leu Leu Asn Gly Ile Lys
 65 70 75 80
 Leu Tyr Gly Arg Pro Ile Lys Ile Gln Phe Arg Ser Gly Ser Ser His
 85 90 95
 Ala Pro Gln Asp Val Ser Leu Ser Tyr Pro Gln His His Val Gly Asn
 100 105 110
 Ser Ser Pro Thr Ser Thr Ser Pro Ser Ala Gly Thr Lys Gly Leu Trp
 115 120 125
 Ile Thr
 130

<210> 1690

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1690

Arg Pro Ser Leu Glu Val Leu Phe Thr Val Ile Leu Thr Lys Ile Thr
 1 5 10 15
 Tyr Cys Pro Pro Glu Tyr Gln Val Leu Gly Asp Thr Ser Ser Ser Cys
 20 25 30
 Cys Leu Gln Ser Ser Tyr Gln Glu Ala Arg Cys Thr Gly Phe Leu Trp
 35 40 45
 Phe Leu Gln Glu Pro Pro Thr Leu Ser Val Phe Trp Pro Arg Ser Gly
 50 55 60
 Val Asn Pro Leu Val Ser Ala Phe Glu Leu Asp Thr Cys Ala Phe Ser
 65 70 75 80

Ser Val Asn Thr Ala Leu Phe Gly Gly Val Ser Ser Ser Pro Gln Pro
85 90 95
Glu Leu Leu Asn Ser Lys Pro Lys Leu Val Ser Ala Glu Xaa Arg Phe
100 105 110
Gln Asp Ser Pro Val Ser Ile Cys Gly Asp Leu Gln Ile Arg Gln Ser
115 120 125
Ser Phe Pro Ala Ser Gly Val Leu Ala Pro Glu Pro Ser Leu Arg Leu
130 135 140
Val Leu Leu Asp Val Leu Ile Ser Asp His Tyr Pro Pro Tyr Ala Ser
145 150 155 160
His Arg Pro Arg Glu Asn Arg His Gln Asn Leu Gly
165 170

<210> 1691

<211> 272

<212> PRT

<213> Homo sapiens

<400> 1691

Asn Ser Arg Val His Pro Arg Arg Pro Val Thr Ala Glu Lys Met Ala
1 5 10 15
Val Leu Ala Pro Leu Ile Ala Leu Val Tyr Ser Val Pro Arg Leu Ser
20 25 30
Arg Trp Leu Ala Gln Pro Tyr Tyr Leu Leu Ser Ala Leu Leu Ser Ala
35 40 45
Ala Phe Leu Leu Val Arg Lys Leu Pro Pro Leu Cys His Gly Leu Pro
50 55 60
Thr Gln Arg Glu Asp Gly Asn Pro Cys Asp Phe Asp Trp Arg Glu Val
65 70 75 80
Glu Ile Leu Met Phe Leu Ser Ala Ile Val Met Met Lys Asn Arg Arg
85 90 95
Ser Met Phe Leu Met Thr Cys Lys Pro Pro Leu Tyr Met Gly Pro Glu
100 105 110
Tyr Ile Lys Tyr Phe Asn Asp Lys Thr Ile Asp Glu Glu Leu Glu Arg
115 120 125

Asp Lys Arg Val Thr Trp Ile Val Glu Phe Phe Ala Asn Trp Ser Asn
130 135 140

Asp Cys Gln Ser Phe Ala Pro Ile Tyr Ala Asp Leu Ser Leu Lys Tyr
145 150 155 160

Asn Cys Thr Gly Leu Asn Phe Gly Lys Val Asp Val Gly Arg Tyr Thr
165 170 175

Asp Val Ser Thr Arg Tyr Lys Val Ser Thr Ser Pro Leu Thr Lys Gln
180 185 190

Leu Pro Thr Leu Ile Leu Phe Gln Gly Gly Lys Glu Ala Met Arg Arg
195 200 205

Pro Gln Ile Asp Lys Lys Gly Arg Ala Val Ser Trp Thr Phe Ser Glu
210 215 220

Glu Asn Val Ile Arg Glu Phe Asn Leu Asn Glu Leu Tyr Gln Arg Ala
225 230 235 240

Lys Lys Leu Ser Lys Ala Gly Asp Asn Ile Pro Glu Glu Gln Pro Val
245 250 255

Ala Ser Thr Pro Thr Thr Val Ser Asp Gly Glu Asn Lys Lys Asp Lys
260 265 270

<210> 1692

<211> 366

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1692

Gly Lys Arg Thr Gly Arg Ala Xaa Ala Ser Ser Gly Arg Arg Gly Glu
1 5 10 15

Gly Gly Trp Trp Arg Leu Pro Arg Ser Pro Ser Leu Pro Ala Val Pro
20 25 30

Thr Pro Gly Thr Met Phe Pro Ala Gly Pro Pro Ser His Ser Leu Leu
35 40 45

Arg Leu Pro Leu Leu Gln Leu Leu Leu Leu Val Val Gln Ala Val Gly
50 55 60

Arg Gly Leu Gly Arg Ala Ser Pro Ala Gly Gly Pro Leu Glu Asp Val
65 70 75 80

Val Ile Glu Arg Tyr His Ile Pro Arg Ala Cys Pro Arg Glu Val Gln
85 90 95

Met Gly Asp Phe Val Arg Tyr His Tyr Asn Gly Thr Phe Glu Asp Gly
100 105 110

Lys Lys Phe Asp Ser Ser Tyr Asp Arg Asn Thr Leu Val Ala Ile Val
115 120 125

Val Gly Val Gly Arg Leu Ile Thr Gly Met Asp Arg Gly Leu Met Gly
130 135 140

Met Cys Val Asn Glu Arg Arg Arg Leu Ile Val Pro Pro His Leu Gly
145 150 155 160

Tyr Gly Ser Ile Gly Leu Ala Gly Leu Ile Pro Pro Asp Ala Thr Leu
165 170 175

Tyr Phe Asp Val Val Leu Leu Asp Val Trp Asn Lys Glu Asp Thr Val
180 185 190

Gln Val Ser Thr Leu Leu Arg Pro Pro His Cys Pro Arg Met Val Gln
195 200 205

Asp Gly Asp Phe Val Arg Tyr His Tyr Asn Gly Thr Leu Leu Asp Gly
210 215 220

Thr Ser Phe Asp Thr Ser Tyr Ser Lys Gly Gly Thr Tyr Asp Thr Tyr
225 230 235 240

Val Gly Ser Gly Trp Leu Ile Lys Gly Met Asp Gln Gly Leu Leu Gly
245 250 255

Met Cys Pro Gly Glu Arg Arg Lys Ile Ile Ile Pro Pro Phe Leu Ala
260 265 270

Tyr Gly Glu Lys Gly Tyr Gly Glu Gly Gly Gln Gly His Lys Gly Lys
275 280 285

Phe Arg Arg Arg Gly Lys Asn Gln Ala Ser Thr Tyr Ser Cys Ser Gly
290 295 300

Cys Ile Leu His Glu Gly Ile Gln Pro Arg Thr Gln Gly Gly Met Lys
305 310 315 320

Ser Thr Leu Gly Ala Thr Lys Lys Gly Cys Phe Gly Arg Ala Trp Trp
 325 330 335

Leu Thr Leu Val Ile Pro Ala Leu Trp Glu Ala Lys Ala Gly Gly Ser
 340 345 350

Arg Gly Gln Glu Ile Glu Thr Thr Val Lys Pro Arg Leu Tyr
 355 360 365

<210> 1693

<211> 361

<212> PRT

<213> Homo sapiens

<400> 1693

Leu Pro Gln Ser Arg Trp Asn Lys Ser Ser Thr Pro Asp Gly Val Pro
 1 5 10 15

Thr Leu Cys Cys Arg Asn Glu Ala Arg Gln Gln Ile Ser Ile Ser Arg
 20 25 30

Met Trp Gly Leu Lys Val Leu Leu Leu Pro Val Val Ser Phe Ala Leu
 35 40 45

Tyr Pro Glu Glu Ile Leu Asp Thr His Trp Glu Leu Trp Lys Lys Thr
 50 55 60

His Arg Lys Gln Tyr Asn Asn Lys Val Asp Glu Ile Ser Arg Arg Leu
 65 70 75 80

Ile Trp Glu Lys Asn Leu Lys Tyr Ile Ser Ile His Asn Leu Glu Ala
 85 90 95

Ser Leu Gly Val His Thr Tyr Glu Leu Ala Met Asn His Leu Gly Asp
 100 105 110

Met Thr Ser Glu Glu Val Val Gln Lys Met Thr Gly Leu Lys Val Pro
 115 120 125

Leu Ser His Ser Arg Ser Asn Asp Thr Leu Tyr Ile Pro Glu Trp Glu
 130 135 140

Gly Arg Ala Pro Asp Ser Val Asp Tyr Arg Lys Lys Gly Tyr Val Thr
 145 150 155 160

Pro Val Lys Asn Gln Gly Gln Cys Gly Ser Cys Trp Ala Phe Ser Ser
 165 170 175

Val Gly Ala Leu Glu Gly Gln Leu Lys Lys Lys Thr Gly Lys Leu Leu
 180 185 190
 Asn Leu Ser Pro Gln Asn Leu Val Asp Cys Val Ser Glu Asn Asp Gly
 195 200 205
 Cys Gly Gly Gly Tyr Met Thr Asn Ala Phe Gln Tyr Val Gln Lys Asn
 210 215 220
 Arg Gly Ile Asp Ser Glu Asp Ala Tyr Pro Tyr Val Gly Gln Glu Glu
 225 230 235 240
 Ser Cys Met Tyr Asn Pro Thr Gly Lys Ala Ala Lys Cys Arg Gly Tyr
 245 250 255
 Arg Glu Ile Pro Glu Gly Asn Glu Lys Ala Leu Lys Arg Ala Val Ala
 260 265 270
 Arg Val Gly Pro Val Ser Val Ala Ile Asp Ala Ser Leu Thr Ser Phe
 275 280 285
 Gln Phe Tyr Ser Lys Gly Val Tyr Tyr Asp Glu Ser Cys Asn Ser Asp
 290 295 300
 Asn Leu Asn His Ala Val Leu Ala Val Gly Tyr Gly Ile Gln Lys Gly
 305 310 315 320
 Asn Lys His Trp Ile Ile Lys Asn Ser Trp Gly Glu Asn Trp Gly Asn
 325 330 335
 Lys Gly Tyr Ile Leu Met Ala Arg Asn Lys Asn Asn Ala Cys Gly Ile
 340 345 350
 Ala Asn Leu Ala Ser Phe Pro Lys Met
 355 360

<210> 1694

<211> 282

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1694

Pro Arg Val Arg Arg Gly Pro Arg Val Ser Ser Met Ala Ser Ala Asp
 1 5 10 15

Ser Arg Arg Xaa Ala Asp Gly Gly Gly Ala Gly Gly Thr Phe Gln Pro
 20 25 30
 Tyr Leu Asp Thr Leu Arg Gln Glu Leu Gln Gln Thr Asp Pro Thr Leu
 35 40 45
 Leu Ser Val Val Val Ala Val Leu Ala Val Leu Leu Thr Leu Val Phe
 50 55 60
 Trp Lys Leu Ile Arg Ser Arg Arg Ser Ser Gln Arg Ala Val Leu Leu
 65 70 75 80
 Val Gly Leu Cys Asp Ser Gly Lys Thr Leu Leu Phe Val Arg Leu Leu
 85 90 95
 Thr Gly Leu Tyr Arg Asp Thr Gln Thr Ser Ile Thr Asp Ser Cys Ala
 100 105 110
 Val Tyr Arg Val Asn Asn Asn Arg Gly Asn Ser Leu Thr Leu Ile Asp
 115 120 125
 Leu Pro Gly His Glu Ser Leu Arg Leu Gln Phe Leu Glu Arg Phe Lys
 130 135 140
 Ser Ser Ala Arg Ala Ile Val Phe Val Val Asp Ser Ala Ala Phe Gln
 145 150 155 160
 Arg Glu Val Lys Asp Val Ala Glu Phe Leu Tyr Gln Val Leu Ile Asp
 165 170 175
 Ser Met Gly Leu Lys Asn Thr Pro Ser Phe Leu Ile Ala Cys Asn Lys
 180 185 190
 Gln Asp Ile Ala Met Ala Lys Ser Ala Lys Leu Ile Gln Gln Gln Leu
 195 200 205
 Glu Lys Glu Leu Asn Thr Leu Arg Val Thr Arg Ser Ala Ala Pro Ser
 210 215 220
 Thr Leu Asp Ser Ser Ser Thr Ala Pro Ala Gln Leu Gly Lys Lys Gly
 225 230 235 240
 Lys Glu Phe Glu Phe Ser Gln Leu Pro Leu Lys Val Glu Phe Leu Glu
 245 250 255
 Cys Ser Ala Lys Gly Gly Arg Gly Asp Val Gly Ser Ala Asp Ile Gln
 260 265 270
 Asp Leu Glu Lys Trp Leu Ala Lys Ile Ala
 275 280

<210> 1695
<211> 232
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1695

Gly Val Asp Thr Ser Pro Phe Ala Lys Ser Leu Gly His Ser Arg Gly
1 5 10 15

Glu Ala Asp Leu Phe Asp Ser Gly Asp Ile Phe Ser Thr Gly Thr Gly
20 25 30

Ser Gln Ser Val Glu Arg Thr Lys Pro Lys Ala Lys Ile Ala Glu Asn
35 40 45

Pro Ala Asn Pro Pro Val Gly Gly Lys Ala Lys Ser Pro Met Phe Pro
50 55 60

Ala Leu Gly Glu Ala Ser Ser Asp Asp Asp Leu Phe Gln Ser Ala Lys
65 70 75 80

Pro Lys Pro Ala Lys Lys Thr Asn Pro Phe Pro Leu Leu Glu Asp Glu
85 90 95

Asp Asp Leu Phe Thr Asp Gln Lys Val Lys Lys Asn Glu Thr Lys Ser
100 105 110

Xaa Ser Gln Gln Asp Val Ile Leu Thr Thr Gln Asp Ile Phe Glu Asp
115 120 125

Asp Ile Phe Ala Thr Glu Ala Ile Lys Pro Ser Gln Lys Thr Arg Glu
130 135 140

Lys Glu Lys Thr Leu Glu Ser Asn Leu Phe Asp Asp Asn Ile Asp Ile
145 150 155 160

Phe Ala Asp Leu Thr Val Lys Pro Lys Glu Lys Ser Lys Lys Val
165 170 175

Glu Ala Lys Ser Ile Phe Asp Asp Asp Met Asp Asp Ile Phe Ser Ser
180 185 190

Gly Ile Gln Ala Lys Thr Thr Lys Pro Lys Ser Arg Ser Ala Gln Ala

195 200 205
 Ala Pro Glu Pro Arg Phe Glu His Lys Val Ser Asn Ile Phe Asp Asp
 210 215 220

 Pro Leu Asn Ala Phe Gly Gly Gln
 225 230

 <210> 1696
 <211> 123
 <212> PRT
 <213> Homo sapiens

 <400> 1696
 Arg Gly Gly Ser Pro Glu Val Ser Gly Asn Gly Ala Ala Leu Phe Glu
 1 5 10 15
 Met Phe Ser Tyr Leu Ile Leu Cys Pro Ser Arg Gly Ser Ser Leu Ile
 20 25 30
 Cys Leu Ala Trp Pro Cys Val Pro Pro Val Pro Cys Ser Thr Ala Tyr
 35 40 45
 Leu Val Pro Gln Val Leu Leu Ala Thr Pro Ala Val Thr Leu Asn Ser
 50 55 60
 Phe Asn Ser Ala Leu Asn Ala Pro Ala Ser Glu Ala Cys Pro Ile Ser
 65 70 75 80
 Phe Phe Leu Ala Ser Val Phe Phe Phe Ser Phe Phe Phe Pro Cys Phe
 85 90 95
 Cys Arg Arg Leu Arg Gly Glu Ser Phe Leu Trp Leu Pro Leu Leu Arg
 100 105 110
 Leu Glu Leu Glu Glu Asn Leu Ile Phe Cys Ile
 115 120

<210> 1697
 <211> 272
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (256)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (258)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (262)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (267)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1697

Pro Ala Pro Ala Ala His Val Ala Gly Asn Pro Gly Gly Asp Ala Ala
1 5 10 15

Pro Ala Ala Thr Gly Thr Ala Ala Ala Ala Ser Leu Ala Thr Ala Ala
20 25 30

Gly Ser Glu Asp Ala Glu Lys Lys Val Leu Ala Thr Lys Val Leu Gly
35 40 45

Thr Val Lys Trp Phe Asn Val Arg Asn Gly Tyr Gly Phe Ile Asn Arg
50 55 60

Asn Asp Thr Lys Glu Asp Val Phe Val His Gln Thr Ala Ile Lys Lys
65 70 75 80

Asn Asn Pro Arg Lys Tyr Leu Arg Ser Val Gly Asp Gly Glu Thr Val
85 90 95

Glu Phe Asp Val Val Glu Gly Glu Lys Gly Ala Glu Ala Ala Asn Val
100 105 110

Thr Gly Pro Asp Gly Val Pro Val Glu Gly Ser Arg Tyr Ala Ala Asp
115 120 125

Arg Arg Arg Tyr Arg Arg Gly Tyr Tyr Gly Arg Arg Arg Gly Pro Pro
130 135 140

Arg Asn Ala Gly Glu Ile Gly Glu Met Lys Asp Gly Val Pro Glu Gly
145 150 155 160

Ala Gln Leu Gln Gly Pro Val His Arg Asn Pro Thr Tyr Arg Pro Arg
 165 170 175
 Tyr Arg Ser Arg Gly Pro Pro Arg Pro Arg Pro Ala Pro Ala Val Gly
 180 185 190
 Glu Ala Glu Asp Lys Glu Asn Gln Gln Ala Thr Ser Gly Pro Asn Gln
 195 200 205
 Pro Ser Val Arg Arg Gly Tyr Arg Arg Pro Tyr Asn Tyr Arg Arg Arg
 210 215 220
 Pro Arg Pro Pro Asn Ala Pro Ser Gln Asp Gly Lys Glu Ala Lys Ala
 225 230 235 240
 Gly Glu Ala Pro Thr Glu Asn Pro Ala Pro Pro Thr Ser Arg Ala Xaa
 245 250 255
 Leu Xaa Asn Thr Arg Xaa Xaa Arg His Leu Xaa His Arg Gln Val Thr
 260 265 270

<210> 1698

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1698

Arg Glu Thr Ala Cys Cys Gly Arg Asp Ala Arg Gly Ala Ala Pro Ala
 1 5 10 15
 Ala Met Ala Val Thr Ala Leu Ala Ala Arg Thr Trp Leu Gly Val Trp
 20 25 30
 Gly Val Arg Thr Met Gln Ala Arg Gly Phe Gly Ser Asp Gln Ser Glu
 35 40 45
 Asn Val Asp Arg Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe
 50 55 60
 Gly Lys Arg Glu Gln Ala Glu Glu Glu Arg Tyr Phe Arg His Tyr Arg
 65 70 75 80
 Leu Cys Phe Glu Ile Ser Leu Gly
 85

<210> 1699

<211> 223

<212> PRT

<213> Homo sapiens

<400> 1699

Cys Cys Ser Glu Gln Gln Arg Ile Ser Lys Asp Leu Ala Asn Ile Cys
1 5 10 15

Lys Thr Ala Ala Thr Ala Gly Ile Ile Gly Trp Val Tyr Gly Gly Ile
20 25 30

Pro Ala Phe Ile His Ala Lys Gln Gln Tyr Ile Glu Gln Ser Gln Ala
35 40 45

Glu Ile Tyr His Asn Arg Phe Asp Ala Val Gln Ser Ala His Arg Ala
50 55 60

Ala Thr Arg Gly Phe Ile Arg Tyr Gly Trp Arg Trp Gly Trp Arg Thr
65 70 75 80

Ala Val Phe Val Thr Ile Phe Asn Thr Val Asn Thr Ser Leu Asn Val
85 90 95

Tyr Arg Asn Lys Asp Ala Leu Ser His Phe Val Ile Ala Gly Ala Val
100 105 110

Thr Gly Ser Leu Phe Arg Ile Asn Val Gly Leu Arg Gly Leu Val Ala
115 120 125

Gly Gly Ile Ile Gly Ala Leu Leu Gly Thr Pro Val Gly Gly Leu Leu
130 135 140

Met Ala Phe Gln Lys Tyr Ser Gly Glu Thr Val Gln Glu Arg Lys Gln
145 150 155 160

Lys Asp Arg Lys Ala Leu His Glu Leu Lys Leu Glu Glu Trp Lys Gly
165 170 175

Arg Leu Gln Val Thr Glu His Leu Pro Glu Lys Ile Glu Ser Ser Leu
180 185 190

Gln Glu Asp Glu Pro Glu Asn Asp Ala Lys Lys Ile Glu Ala Leu Leu
195 200 205

Asn Leu Pro Arg Asn Pro Ser Val Ile Asp Lys Gln Asp Lys Asp
210 215 220

<210> 1700

<211> 543

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (264)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (269)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (279)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1700

Ala Arg Ala Arg Leu Thr Cys Pro Arg Arg Arg Gly Pro Trp Glu Ala
1 5 10 15

Gly Ser Arg Ala Thr Val Ser Leu Thr Arg Leu Ala Leu Gly Val Pro
20 25 30

Gly Pro Arg Glu His Pro Gly Gln Pro Glu Asp Ser Pro Glu Ala Glu
35 40 45

Ala Ser Thr Leu Asp Val Phe Thr Glu Arg Leu Pro Pro Ser Gly Arg
50 55 60

Ile Thr Lys Thr Glu Ser Leu Val Ile Pro Ser Thr Arg Ser Glu Gly
65 70 75 80

Lys Gln Ala Gly Arg Arg Gly Arg Ser Thr Ser Leu Lys Glu Arg Gln
85 90 95

Ala Ala Arg Pro Gln Asn Glu Arg Ala Asn Ser Leu Asp Asn Glu Arg
100 105 110

Cys Pro Asp Ala Arg Ser Gln Leu Gln Ile Pro Arg Lys Thr Val Tyr
115 120 125

Asp Gln Leu Asn His Ile Leu Ile Ser Asp Asp Gln Leu Pro Glu Asn
130 135 140

Ile Ile Leu Val Asn Thr Ser Asp Trp Gln Gly Gln Phe Leu Ser Asp
145 150 155 160

Val Leu Gln Arg His Thr Leu Pro Val Val Cys Thr Cys Ser Pro Ala
165 170 175

Asp Val Gln Ala Ala Phe Ser Thr Ile Val Ser Arg Ile Gln Arg Tyr
180 185 190

Cys Asn Cys Asn Ser Gln Pro Pro Thr Pro Val Lys Ile Ala Val Ala
195 200 205

Gly Ala Gln His Tyr Leu Ser Ala Ile Leu Arg Leu Phe Val Glu Gln
210 215 220

Leu Ser His Lys Thr Pro Asp Trp Leu Gly Tyr Met Arg Phe Leu Val
225 230 235 240

Ile Pro Leu Gly Ser His Pro Val Ala Arg Tyr Leu Gly Ser Val Asp
245 250 255

Tyr Arg Tyr Asn Asn Phe Phe Xaa Asp Leu Ala Trp Xaa Asp Leu Phe
260 265 270

Asn Lys Leu Glu Ala Gln Xaa Ala Val Gln Asp Thr Pro Asp Ile Val
275 280 285

Ser Arg Ile Thr Gln Tyr Ile Ala Gly Ala Asn Cys Ala His Gln Leu
290 295 300

Pro Ile Ala Glu Ala Met Leu Thr Tyr Lys Gln Lys Ser Pro Asp Glu
305 310 315 320

Glu Ser Ser Gln Lys Phe Ile Pro Phe Val Gly Val Val Lys Val Gly
325 330 335

Ile Val Glu Pro Ser Ser Ala Thr Ser Gly Asp Ser Asp Asp Ala Ala
340 345 350

Pro Ser Gly Ser Gly Thr Leu Ser Ser Thr Pro Pro Ser Ala Ser Pro
355 360 365

Ala Ala Lys Glu Ala Ser Pro Thr Pro Pro Ser Ser Pro Ser Val Ser
370 375 380

Gly Gly Leu Ser Ser Pro Ser Gln Gly Val Gly Ala Glu Leu Met Gly
385 390 395 400

Leu Gln Val Asp Tyr Trp Thr Ala Ala Gln Pro Ala Asp Arg Lys Arg
405 410 415

Asp Ala Glu Lys Lys Asp Leu Pro Val Thr Lys Asn Thr Leu Lys Cys
420 425 430

Thr Phe Arg Ser Leu Gln Val Ser Arg Leu Pro Ser Ser Gly Glu Ala
435 440 445

Ala Ala Thr Pro Thr Met Ser Met Thr Val Val Thr Lys Glu Lys Asn
450 455 460

Lys Lys Val Met Phe Leu Pro Lys Lys Ala Lys Asp Lys Asp Val Glu
465 470 475 480

Ser Lys Ser Gln Cys Ile Glu Gly Ile Ser Arg Leu Ile Cys Thr Ala
485 490 495

Arg Gln Gln Gln Asn Met Leu Arg Val Leu Ile Asp Gly Val Glu Cys
500 505 510

Ser Asp Val Lys Phe Phe Gln Leu Ala Ala Gln Trp Ser Ser His Val
515 520 525

Lys His Phe Pro Ile Cys Ile Phe Gly His Ser Lys Ala Thr Phe
530 535 540

<210> 1701

<211> 71

<212> PRT

<213> Homo sapiens

<400> 1701

Ile Pro Ser Tyr Thr Ile Lys Cys Ser Ile Gly Arg Gln Ser Val Ser
1 5 10 15

Phe Phe Phe Tyr Val Tyr Cys Leu Cys Gly Val Lys Tyr Lys Ala Leu
20 25 30

Gly Cys Ile Thr Tyr Ser Lys Ala Val Thr Leu Ser Leu Ile Cys Cys
35 40 45

Asp Pro Leu Lys Met Cys Trp Gly Leu Phe Cys Cys His Cys Leu Cys
50 55 60

Cys Trp Asn Leu Ala Leu Ser
65 70

<210> 1702

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1702

Glu His Val Phe Gly Phe Leu Phe Cys Val Ser Leu Leu Arg Ile Met
 1 5 10 15

Ala Ser Ser Ser Asp Gly Ile Ser Leu Ser Tyr Arg Pro Val Val Thr
 20 25 30

Gly Gln Asp Arg Met Met Asp Thr Glu Val Leu Ser Leu Leu Ser Ser
 35 40 45

Val Ala Leu Pro Ser Leu Leu Leu Ala Ser Glu Ser Phe Asp Ser Ile
 50 55 60

Tyr Pro Gly Ile Phe Cys Val Leu Met Phe Ser Ser Gly Leu Xaa Ser
 65 70 75 80

Ala Val Leu Ile Gly Arg Ala Leu Ser Phe Gln Ala Ile Leu Lys Gly
 85 90 95

Gly Gln Ser Lys Gly Gln Ser Leu Asn Pro Phe Cys Gly Leu Asn Asn
 100 105 110

Leu Arg Ile Lys Ser Ser Val Leu Leu Ile Pro Val Leu Leu Cys Gln
 115 120 125

Thr Leu Ser
 130

<210> 1703

<211> 330

<212> PRT

<213> Homo sapiens

<400> 1703

His Gly Asn Pro Asp Arg Arg Pro Arg Gly Glu Glu Glu Gly Asp Pro
 1 5 10 15

Val Gly Pro Ala Thr Leu Ser Ala Arg Leu Gly Ala Ser Ala Gly Ala
 20 25 30

Met Thr Ser Leu Thr Gln Arg Ser Ser Gly Leu Val Gln Arg Arg Thr
 35 40 45

Glu Ala Ser Arg Asn Ala Ala Asp Lys Glu Arg Ala Ala Gly Gly Gly
 50 55 60
 Ala Gly Ser Ser Glu Asp Asp Ala Gln Ser Arg Arg Asp Glu Gln Asp
 65 70 75 80
 Asp Asp Asp Lys Gly Asp Ser Lys Glu Thr Arg Leu Thr Leu Met Glu
 85 90 95
 Glu Val Leu Leu Leu Gly Leu Lys Asp Arg Glu Gly Tyr Thr Ser Phe
 100 105 110
 Trp Asn Asp Cys Ile Ser Ser Gly Leu Arg Gly Cys Met Leu Ile Glu
 115 120 125
 Leu Ala Leu Arg Gly Arg Leu Gln Leu Glu Ala Cys Gly Met Arg Arg
 130 135 140
 Lys Ser Leu Leu Thr Arg Lys Val Ile Cys Lys Ser Asp Ala Pro Thr
 145 150 155 160
 Gly Asp Val Leu Leu Asp Glu Ala Leu Lys His Val Lys Glu Thr Gln
 165 170 175
 Pro Pro Glu Thr Val Gln Asn Trp Ile Glu Leu Leu Ser Gly Glu Thr
 180 185 190
 Trp Asn Pro Leu Lys Leu His Tyr Gln Leu Arg Asn Val Arg Glu Arg
 195 200 205
 Leu Ala Lys Asn Leu Val Glu Lys Gly Val Leu Thr Thr Glu Lys Gln
 210 215 220
 Asn Phe Leu Leu Phe Asp Met Thr Thr His Pro Leu Thr Asn Asn Asn
 225 230 235 240
 Ile Lys Gln Arg Leu Ile Lys Lys Val Gln Glu Ala Val Leu Asp Lys
 245 250 255
 Trp Val Asn Asp Pro His Arg Met Asp Arg Arg Leu Leu Ala Leu Ile
 260 265 270
 Tyr Leu Ala His Ala Ser Asp Val Leu Glu Asn Ala Phe Ala Pro Leu
 275 280 285
 Leu Asp Glu Gln Tyr Asp Leu Ala Thr Lys Arg Val Arg Gln Leu Leu
 290 295 300
 Asp Leu Asp Pro Glu Val Glu Cys Leu Lys Ala Asn Thr Asn Glu Val
 305 310 315 320

Leu Trp Ala Val Val Ala Ala Phe Thr Lys
325 330

<210> 1704

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1704

Val Phe Ile Ser Ile Val Ser Leu Arg His Gly Lys Gly Arg Met Leu
1 5 10 15

Lys Gln Val Met Phe Val Phe Ser Gly Met Gly Pro Arg Ser His Cys
20 25 30

Trp Gly Leu Pro Leu His Val Ala Pro Leu Cys Arg Pro Pro Gly Arg
35 40 45

Leu Phe Pro Pro Ser Pro Thr Glu Ala Pro Arg Gly Leu Asn Arg Asn
50 55 60

Leu Ala Asn Gln Arg His Phe Phe Cys Pro Ser Ile Phe His Thr Cys
65 70 75 80

Pro Thr Val Leu Phe Phe
85

<210> 1705

<211> 17

<212> PRT

<213> Homo sapiens

<400> 1705

Phe Gly Gly Glu Glu Met Ala Asp Ser Val Lys Thr Phe Leu Gln Asp
1 5 10 15

Leu

<210> 1706

<211> 471

<212> PRT

<213> Homo sapiens

<220>

<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (191)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (373)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (446)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1706
Ser Thr Pro Ser Gly Tyr Leu Glu Leu Pro Asp Leu Gly Gln Pro Tyr
1 5 10 15
Ser Ser Ala Val Tyr Ser Leu Glu Glu Gln Tyr Leu Gly Leu Ala Leu
20 25 30
Asp Val Asp Arg Xaa Lys Lys Asp Xaa Glu Glu Glu Glu Asp Gln Xaa
35 40 45
Pro Pro Cys Pro Arg Leu Ser Arg Glu Leu Leu Glu Val Val Glu Pro
50 55 60
Glu Val Leu Gln Asp Ser Leu Asp Arg Cys Tyr Ser Thr Pro Ser Ser
65 70 75 80
Cys Leu Glu Gln Pro Asp Ser Cys Gln Pro Tyr Gly Ser Ser Phe Tyr
85 90 95
Ala Leu Glu Glu Lys His Val Gly Phe Ser Leu Asp Val Gly Glu Ile
100 105 110

Glu Lys Lys Gly Lys Gly Lys Lys Arg Arg Gly Arg Arg Ser Lys Lys
115 120 125

Glu Arg Arg Arg Gly Arg Lys Glu Gly Glu Glu Asp Gln Asn Pro Pro
130 135 140

Cys Pro Arg Leu Ser Arg Glu Leu Leu Asp Glu Lys Gly Pro Glu Val
145 150 155 160

Leu Gln Asp Ser Leu Asp Arg Cys Tyr Ser Thr Pro Ser Gly Cys Leu
165 170 175

Glu Leu Thr Asp Ser Cys Gln Pro Tyr Arg Ser Ala Phe Tyr Xaa Leu
180 185 190

Glu Gln Gln Arg Val Gly Leu Ala Val Asp Met Asp Glu Ile Glu Lys
195 200 205

Tyr Gln Glu Val Glu Glu Asp Gln Asp Pro Ser Cys Pro Arg Leu Ser
210 215 220

Arg Glu Leu Leu Asp Glu Lys Glu Pro Glu Val Leu Gln Asp Ser Leu
225 230 235 240

Asp Arg Cys Tyr Ser Thr Pro Ser Gly Tyr Leu Glu Leu Pro Asp Leu
245 250 255

Gly Gln Pro Tyr Ser Ser Ala Val Tyr Ser Leu Glu Glu Gln Tyr Leu
260 265 270

Gly Leu Ala Leu Asp Val Asp Arg Ile Lys Lys Asp Gln Glu Glu Glu
275 280 285

Glu Asp Gln Gly Pro Pro Cys Pro Arg Leu Ser Arg Glu Leu Leu Glu
290 295 300

Val Val Glu Pro Glu Val Leu Gln Asp Ser Leu Asp Arg Cys Tyr Ser
305 310 315 320

Thr Pro Ser Ser Cys Leu Glu Gln Pro Asp Ser Cys Gln Pro Tyr Gly
325 330 335

Ser Ser Phe Tyr Ala Leu Glu Glu Lys His Val Gly Phe Ser Leu Asp
340 345 350

Val Gly Glu Ile Glu Lys Lys Gly Lys Gly Lys Lys Arg Arg Gly Arg
355 360 365

Arg Ser Lys Lys Xaa Arg Arg Arg Gly Arg Lys Glu Gly Glu Glu Asp
370 375 380

Gln Asn Pro Pro Cys Pro Arg Leu Asn Gly Val Leu Met Glu Val Glu
385 390 395 400

Glu Pro Glu Val Leu Gln Asp Ser Leu Asp Arg Cys Tyr Ser Thr Pro
405 410 415

Ser Met Tyr Phe Glu Leu Pro Asp Ser Phe Gln His Tyr Arg Ser Val
420 425 430

Phe Tyr Ser Phe Glu Glu Gln His Ile Ser Phe Ala Leu Xaa Val Asp
435 440 445

Asn Arg Phe Phe Thr Leu Thr Val Thr Ser Leu His Leu Val Phe Gln
450 455 460

Met Gly Val Ile Phe Pro Gln
465 470

<210> 1707

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1707

Arg Glu Arg Asn Leu Gly Ala Pro Gly Ser Gly Leu Lys Ala Ala Arg
1 5 10 15

Gln Ser Arg Ala Val Leu Ala Pro Ala Arg Gly Ala Ala Ala Pro Gly
20 25 30

Val Ala Met Thr Ser Glu Leu Asp Ile Phe Val Gly Asn Thr Thr Leu
35 40 45

Ile Asp Glu Asp Val Tyr Arg Leu Trp Leu Asp Gly Tyr Ser Val Thr
50 55 60

Asp Ala Val Ala Leu Arg Val Arg Ser Gly Ile Leu Glu Gln Thr Gly
65 70 75 80

Ala Thr Ala Ala Val Leu Gln Ser Asp Thr Met Asp His Tyr Arg Thr
85 90 95

Phe His Met Leu Glu Arg Leu Leu His Ala Pro Pro Lys Leu Leu His
100 105 110

Gln Leu Ile Phe Gln Ile Pro Pro Ser Arg Gln Ala Leu Leu Ile Glu
115 120 125

Arg Tyr Tyr Ala Phe Asp Glu Ala Phe Val Arg Glu Val Leu Gly Lys

130 135 140
 Lys Leu Ser Lys Gly Thr Lys Lys Asp Leu Asp Asp Ile Ser Thr Lys
 145 150 155 160
 Thr Gly Ile Thr Leu Lys Ser Cys Arg Arg Gln Phe Asp Asn Phe Lys
 165 170 175
 Arg Val Phe Lys Val Val Glu Glu Met Arg Gly Ser Leu Val Asp Asn
 180 185 190
 Ile Gln Gln His Phe Leu Leu Ser Asp Arg Leu Ala Arg Asp Tyr Ala
 195 200 205
 Ala Ile Val Phe Phe Ala Asn Asn Arg Phe Glu Thr Gly Lys Lys Lys
 210 215 220
 Leu Gln Tyr Leu Ser Phe Gly Asp Phe Ala Phe Cys Ala Glu Leu Met
 225 230 235 240
 Ile Gln Asn Trp Thr Leu Trp Ser Arg Arg
 245 250

<210> 1708

<211> 337

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (283)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1708

Ile Tyr His Pro Ala Val Val Glu Ser Thr Ile Cys Ser Gly Ile Tyr
 1 5 10 15

Thr Gln Cys Gln Phe Asp Ile Met Leu Gly Gly Thr Asp Cys Arg Thr
 20 25 30

Phe Leu Thr Ser His Ile Asn Leu Lys Lys Thr Leu Cys Asp Val Ile
35 40 45

Leu Met Val Gln Glu Arg Lys Ile Pro Ala His Arg Val Val Leu Ala
50 55 60

Ala Ala Ser His Phe Phe Asn Leu Met Phe Thr Thr Asn Met Leu Glu
65 70 75 80

Ser Lys Ser Phe Glu Val Glu Leu Lys Asp Ala Glu Pro Asp Ile Ile
85 90 95

Glu Gln Leu Val Glu Phe Ala Tyr Thr Ala Arg Ile Ser Val Asn Xaa
100 105 110

Asn Asn Val Gln Ser Leu Leu Asp Ala Ala Asn Gln Tyr Gln Xaa Glu
115 120 125

Pro Val Lys Lys Met Cys Val Asp Phe Leu Lys Glu Gln Val Asp Ala
130 135 140

Ser Asn Cys Leu Gly Ile Ser Val Leu Ala Glu Cys Leu Asp Cys Pro
145 150 155 160

Glu Leu Lys Ala Thr Ala Asp Asp Phe Ile His Gln His Phe Thr Glu
165 170 175

Val Tyr Lys Thr Asp Glu Phe Leu Gln Leu Asp Val Lys Arg Val Thr
180 185 190

His Leu Leu Asn Gln Asp Thr Leu Thr Val Arg Ala Glu Asp Gln Val
195 200 205

Tyr Asp Ala Ala Val Arg Trp Leu Lys Tyr Asp Glu Pro Asn Arg Gln
210 215 220

Pro Phe Met Val Asp Ile Leu Ala Lys Val Arg Phe Pro Leu Ile Ser
225 230 235 240

Lys Asn Phe Leu Ser Lys Thr Val Gln Ala Glu Pro Leu Ile Gln Asp
245 250 255

Asn Pro Glu Cys Leu Lys Met Val Ile Ser Gly Met Arg Tyr His Leu
260 265 270

Leu Ser Pro Glu Asp Arg Glu Glu Leu Val Xaa Gly Thr Arg Pro Arg
275 280 285

Arg Lys Lys His Asp Tyr Arg Ile Ala Leu Phe Gly Gly Ser Gln Pro
290 295 300

Gln Ser Cys Arg Tyr Phe Asn Pro Lys Asp Tyr Ser Trp Thr Asp Ile
 305 310 315 320

Arg Cys Pro Phe Glu Lys Arg Glu Met Gln His Ala Cys Phe Gly Thr
 325 330 335

Met

<210> 1709

<211> 101

<212> PRT

<213> Homo sapiens

<400> 1709

Val Ala Ser Gly His Pro Arg Pro Asp Ile Thr Trp Met Lys Asp Asp
 1 5 10 15

Gln Ala Leu Thr Arg Pro Glu Ala Ala Glu Pro Arg Lys Lys Lys Trp
 20 25 30

Thr Leu Ser Leu Lys Asn Leu Arg Pro Glu Asp Ser Gly Lys Tyr Thr
 35 40 45

Cys Arg Val Ser Asn Arg Ala Gly Ala Ile Asn Ala Thr Tyr Lys Val
 50 55 60

Asp Val Ile Gln Arg Thr Arg Ser Lys Pro Val Leu Thr Gly Thr His
 65 70 75 80

Pro Val Asn Thr Thr Val Asp Phe Gly Gly Thr Thr Ser Phe Gln Cys
 85 90 95

Lys Val Arg Thr Thr
 100

<210> 1710

<211> 124

<212> PRT

<213> Homo sapiens

<400> 1710

Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr Ser Gly Ser
 1 5 10 15

Pro Gly Leu Gln Glu Phe Gly Thr Arg Asn Leu Arg Lys Met Val Ala

<210> 1712

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1712

Gly Ile Lys Gly Pro Trp Thr Glu Ser Cys Leu Gly Gly Pro Ser Gly
1 5 10 15
Met Gly Xaa Gly His Thr Ser Leu Ala Ile Ser Gln Gln Asp Gln Ser
20 25 30
Lys Leu Tyr His Leu Pro Pro Pro Thr Val Gly Pro His Ser Ile Ala
35 40 45
Ser Pro Pro Glu Asp Arg Thr Val Lys Asp Ser Thr Pro Ser Ser Leu
50 55 60
Asp Ser Asp Pro Leu Met Ala Met Leu Leu Lys Leu Gln Glu Ala Ala
65 70 75 80
Asn Tyr Ile Glu Ser Pro Asp Arg Glu Thr Ile Leu Asp Pro Asn Leu
85 90 95
Gln Ala Thr Leu
100

<210> 1713

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1713

Pro Ile Phe Ile Glu Tyr Phe Leu His Val Gln Leu His Pro Leu Cys
1 5 10 15
Lys Asp Tyr Met Asn Ile Ala His Ser Leu Leu Val Ser Gln Thr His
20 25 30
Leu Tyr Ile Phe Leu Ser Glu Ala His Cys Thr Cys Ile Glu Ala Arg
35 40 45
Ile Glu Ser Arg Lys Ile Lys Pro His Ser Pro Thr Ala Lys Cys Ala
50 55 60

Phe Pro
65

<210> 1714

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1714

Gly Thr Xaa Thr Phe Pro Gly Pro Pro Asn Asn Ser Ser Ile His Gly
1 5 10 15

Gly Ser Lys Arg Ser Glu Asn Ser Tyr Cys Arg Asp Leu Arg Gly Gln
20 25 30

Leu Arg Ala Ile Cys Cys Ser Ser Tyr Ser His Asp Arg His Thr Thr
35 40 45

Glu Glu Arg Gly Ser Arg Gly Arg Arg Val Trp Arg Ile Arg Arg Leu
50 55 60

His Thr Ser Gly Leu Pro Cys Cys Cys His Ser Gly Pro His Pro Arg
65 70 75 80

Arg Leu Pro Asp Ile Leu Arg Leu Val Thr Ser Thr Lys Thr Asp His
85 90 95

Thr Asn Thr Thr Glu Gly Thr Leu Asp Tyr Leu
100 105

<210> 1715

<211> 491

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1715

Ala	Ala	Arg	Val	Gly	Arg	His	Gly	Arg	Arg	Arg	Arg	Ser	Ala	Ala	Met
1				5				10					15		

Ala	Gly	Arg	Gly	Gly	Ser	Ala	Leu	Leu	Ala	Leu	Cys	Gly	Ala	Leu	Ala
			20					25					30		

Ala	Cys	Gly	Trp	Leu	Leu	Gly	Ala	Glu	Xaa	Xaa	Xaa	Pro	Gly	Ala	Pro
			35				40						45		

Ala	Ala	Gly	Met	Arg	Arg	Arg	Arg	Arg	Leu	Gln	Gln	Glu	Asp	Gly	Ile
			50				55					60			

Ser	Phe	Glu	Tyr	His	Arg	Tyr	Pro	Glu	Leu	Arg	Glu	Ala	Leu	Val	Ser
			65			70				75					80

Val	Trp	Leu	Gln	Cys	Thr	Ala	Ile	Ser	Arg	Ile	Tyr	Thr	Val	Gly	Arg
				85					90					95	

Ser	Phe	Glu	Gly	Arg	Glu	Leu	Leu	Val	Ile	Glu	Leu	Ser	Asp	Asn	Pro
			100				105						110		

Gly	Val	His	Glu	Pro	Gly	Glu	Pro	Glu	Phe	Lys	Tyr	Ile	Gly	Asn	Met
			115				120						125		

His	Gly	Asn	Glu	Ala	Val	Gly	Arg	Glu	Leu	Leu	Ile	Phe	Leu	Ala	Gln
			130				135				140				

Tyr	Leu	Cys	Asn	Glu	Tyr	Gln	Lys	Gly	Asn	Glu	Thr	Ile	Val	Asn	Leu
			145			150				155					160

Ile	His	Ser	Thr	Arg	Ile	His	Ile	Met	Pro	Ser	Leu	Asn	Pro	Asp	Gly
				165					170					175	

Phe	Glu	Lys	Ala	Ala	Ser	Gln	Pro	Gly	Glu	Leu	Lys	Asp	Trp	Phe	Val
			180					185					190		

Gly	Arg	Ser	Asn	Ala	Gln	Gly	Ile	Asp	Leu	Asn	Arg	Asn	Phe	Pro	Asp
			195				200					205			

Leu	Asp	Arg	Ile	Val	Tyr	Val	Asn	Glu	Lys	Glu	Gly	Gly	Pro	Asn	Asn
			210				215					220			

His Leu Leu Lys Asn Met Lys Lys Ile Val Asp Gln Asn Thr Lys Leu
225 230 235 240

Ala Pro Glu Thr Lys Ala Val Ile His Trp Ile Met Asp Ile Pro Phe
245 250 255

Val Leu Ser Ala Asn Leu His Gly Gly Asp Leu Val Ala Asn Tyr Pro
260 265 270

Tyr Asp Glu Thr Arg Ser Gly Ser Ala His Glu Tyr Ser Ser Ser Pro
275 280 285

Asp Asp Ala Ile Phe Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe Asn
290 295 300

Pro Ala Met Ser Asp Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp Asp
305 310 315 320

Asp Ser Ser Phe Val Asp Gly Thr Thr Asn Gly Gly Ala Trp Tyr Ser
325 330 335

Val Pro Gly Gly Met Gln Asp Phe Asn Tyr Leu Ser Ser Asn Cys Phe
340 345 350

Glu Ile Thr Val Glu Leu Ser Cys Glu Lys Phe Pro Pro Glu Glu Thr
355 360 365

Leu Lys Thr Tyr Trp Glu Asp Asn Lys Asn Ser Leu Ile Ser Tyr Leu
370 375 380

Glu Gln Ile His Arg Gly Val Lys Gly Phe Val Arg Asp Leu Gln Gly
385 390 395 400

Asn Pro Ile Ala Asn Ala Thr Ile Ser Val Glu Gly Ile Asp His Asp
405 410 415

Val Thr Ser Ala Lys Asp Gly Asp Tyr Trp Arg Leu Leu Ile Pro Gly
420 425 430

Asn Tyr Lys Leu Thr Ala Ser Ala Pro Gly Tyr Leu Ala Ile Thr Lys
435 440 445

Lys Val Ala Val Pro Tyr Ser Pro Ala Ala Gly Val Asp Phe Glu Leu
450 455 460

Glu Ser Phe Ser Glu Arg Lys Glu Glu Glu Lys Glu Glu Leu Met Glu
465 470 475 480

Trp Trp Lys Met Met Ser Glu Thr Leu Asn Phe
485 490

<210> 1716

<211> 179

<212> PRT

<213> Homo sapiens

<400> 1716

Ala Ala Glu Glu Thr Gly Gly Ala Gln Pro Glu Gly Arg Gly Val Gly
1 5 10 15

Pro Lys Glu Arg Glu Leu Gln His Ala Ala Leu Gly Gly Thr Ala Ile
20 25 30

Gln Pro Cys Phe Phe Gln Asp Ile Ser Met Glu Ile Pro Gln Glu Phe
35 40 45

Gln Lys Thr Val Ser Thr Met Tyr Tyr Leu Trp Met Cys Ser Thr Leu
50 55 60

Ala Leu Leu Leu Asn Phe Leu Ala Cys Leu Ala Ser Phe Cys Val Glu
65 70 75 80

Thr Asn Asn Gly Ala Gly Phe Gly Leu Ser Ile Leu Trp Val Leu Leu
85 90 95

Phe Thr Pro Cys Ser Phe Val Cys Trp Tyr Arg Pro Met Tyr Lys Ala
100 105 110

Phe Arg Ser Asp Ser Ser Phe Asn Phe Phe Val Phe Phe Phe Ile Phe
115 120 125

Phe Val Gln Asp Val Leu Phe Val Leu Gln Ala Ile Gly Ile Pro Gly
130 135 140

Trp Gly Phe Ser Gly Trp Ile Ser Ala Leu Val Val Pro Lys Ala Thr
145 150 155 160

Gln Gln Tyr Pro Cys Ser Cys Cys Trp Ser Pro Cys Ser Ser Leu Ala
165 170 175

Leu Leu Cys

<210> 1717

<211> 499

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (485)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (486)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1717

Arg	Pro	Val	Arg	Asn	Ser	Arg	Val	Thr	Thr	Xaa	Pro	Pro	Ala	Gln	Gln
1				5					10					15	

Thr	Arg	Arg	Asp	Gln	Ser	Val	Pro	Val	Gly	Ser	Met	Ala	Thr	Lys	Cys
			20						25					30	

Gly	Asn	Cys	Gly	Pro	Gly	Tyr	Ser	Thr	Pro	Leu	Glu	Ala	Met	Lys	Gly
		35					40						45		

Pro	Arg	Glu	Glu	Ile	Val	Tyr	Leu	Pro	Cys	Ile	Tyr	Arg	Asn	Thr	Gly
	50						55					60			

Thr	Glu	Ala	Pro	Asp	Tyr	Leu	Ala	Thr	Val	Asp	Val	Asp	Pro	Lys	Ser
65					70					75					80

Pro	Gln	Tyr	Cys	Gln	Val	Ile	His	Arg	Leu	Pro	Met	Pro	Asn	Leu	Lys
			85						90					95	

Asp	Glu	Leu	His	His	Ser	Gly	Trp	Asn	Thr	Cys	Ser	Ser	Cys	Phe	Gly
		100						105					110		

Asp	Ser	Thr	Lys	Ser	Arg	Thr	Lys	Leu	Val	Leu	Pro	Ser	Leu	Ile	Ser
		115					120					125			

Ser	Arg	Ile	Tyr	Val	Val	Asp	Val	Gly	Ser	Glu	Pro	Arg	Ala	Pro	Lys
	130					135					140				

Leu	His	Lys	Val	Ile	Glu	Pro	Lys	Asp	Ile	His	Ala	Lys	Cys	Glu	Leu
145					150					155				160	

Ala	Phe	Leu	His	Thr	Ser	His	Cys	Leu	Ala	Ser	Gly	Glu	Val	Met	Ile
			165						170					175	

Ser	Ser	Leu	Gly	Asp	Val	Lys	Gly	Asn	Gly	Lys	Gly	Gly	Phe	Val	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

180	185	190
Leu Asp Gly Glu Thr Phe Glu Val Lys Gly Thr Trp Glu Arg Pro Gly		
195	200	205
Gly Ala Ala Pro Leu Gly Tyr Asp Phe Trp Tyr Gln Pro Arg His Asn		
210	215	220
Val Met Ile Ser Thr Glu Trp Ala Ala Pro Asn Val Leu Arg Asp Gly		
225	230	235
Phe Asn Pro Ala Asp Val Glu Ala Gly Leu Tyr Gly Ser His Leu Tyr		
245	250	255
Val Trp Asp Trp Gln Arg His Glu Ile Val Gln Thr Leu Ser Leu Lys		
260	265	270
Asp Gly Leu Ile Pro Leu Glu Ile Arg Phe Leu His Asn Pro Asp Ala		
275	280	285
Ala Gln Gly Phe Val Gly Cys Ala Leu Ser Ser Thr Ile Gln Arg Phe		
290	295	300
Tyr Lys Asn Glu Gly Gly Thr Trp Ser Val Glu Lys Val Ile Gln Val		
305	310	315
Pro Pro Lys Lys Val Lys Gly Trp Leu Leu Pro Glu Met Pro Gly Leu		
325	330	335
Ile Thr Asp Ile Leu Leu Ser Leu Asp Asp Arg Phe Leu Tyr Phe Ser		
340	345	350
Asn Trp Leu His Gly Asp Leu Arg Gln Tyr Asp Ile Ser Asp Pro Gln		
355	360	365
Arg Pro Arg Leu Thr Gly Gln Leu Phe Leu Gly Gly Ser Ile Val Lys		
370	375	380
Gly Gly Pro Val Gln Val Leu Glu Asp Glu Glu Leu Lys Ser Gln Pro		
385	390	395
Glu Pro Leu Val Val Lys Gly Lys Arg Val Ala Gly Gly Pro Gln Met		
405	410	415
Ile Gln Leu Ser Leu Asp Gly Lys Arg Leu Tyr Ile Thr Thr Ser Leu		
420	425	430
Tyr Ser Ala Trp Asp Lys Gln Phe Tyr Pro Asp Leu Ile Arg Glu Gly		
435	440	445
Ser Val Met Leu Gln Val Asp Val Asp Thr Val Lys Gly Gly Leu Lys		

450 455 460
 Leu Asn Pro Asn Phe Leu Val Asp Phe Gly Lys Glu Pro Leu Gly Pro
 465 470 475 480
 Ala Leu Ala His Xaa Xaa Arg Tyr Pro Gly Gly Asp Cys Ser Ser Asp
 485 490 495
 Ile Trp Ile

 <210> 1718
 <211> 213
 <212> PRT
 <213> Homo sapiens

 <400> 1718
 Phe Ile Met Asp Asn Leu Ser Ser Glu Glu Ile Gln Gln Arg Ala His
 1 5 10 15
 Gln Ile Thr Asp Glu Ser Leu Glu Ser Thr Arg Arg Ile Leu Gly Leu
 20 25 30
 Ala Ile Glu Ser Gln Asp Ala Gly Ile Lys Thr Ile Thr Met Leu Asp
 35 40 45
 Glu Gln Lys Glu Gln Leu Asn Arg Ile Glu Glu Gly Leu Asp Gln Ile
 50 55 60
 Asn Lys Asp Met Arg Glu Thr Glu Lys Thr Leu Thr Glu Leu Asn Lys
 65 70 75 80
 Cys Cys Gly Leu Cys Val Cys Pro Cys Asn Arg Thr Lys Asn Phe Glu
 85 90 95
 Ser Gly Lys Ala Tyr Lys Thr Thr Trp Gly Asp Gly Gly Glu Asn Ser
 100 105 110
 Pro Cys Asn Val Val Ser Lys Gln Pro Gly Pro Val Thr Asn Gly Gln
 115 120 125
 Leu Gln Gln Pro Thr Thr Gly Ala Ala Ser Gly Gly Tyr Ile Lys Arg
 130 135 140
 Ile Thr Asn Asp Ala Arg Glu Asp Glu Met Glu Glu Asn Leu Thr Gln
 145 150 155 160
 Val Gly Ser Ile Leu Gly Asn Leu Lys Asp Met Ala Leu Asn Ile Gly
 165 170 175

Asn Glu Ile Asp Ala Gln Asn Pro Gln Ile Lys Arg Ile Thr Asp Lys
180 185 190

Ala Asp Thr Asn Arg Asp Arg Ile Asp Ile Ala Asn Ala Arg Ala Lys
195 200 205

Lys Leu Ile Asp Ser
210

<210> 1719
<211> 102
<212> PRT
<213> Homo sapiens

<400> 1719
Gly Met Glu Gly Thr Glu Met Gly Ala Arg Pro Gly Gly His Pro Gln
1 5 10 15

Lys Trp Ser Phe Leu Trp Ser Leu Ala Leu Trp Leu Pro Leu Ala Leu
20 25 30

Ser Val Ser Leu Phe Leu Gly Leu Ser Leu Ser Pro Pro Gln Pro Gly
35 40 45

Leu Ser Leu Trp Cys Thr Leu Ser Tyr Cys Cys Glu Gln Trp Lys Phe
50 55 60

Lys Gly Thr Pro Ser Pro Ala Leu Leu Asn Leu Gly Thr Gln Pro Lys
65 70 75 80

Lys Asp Lys Lys Leu Glu Asp Ser Ile Ala Thr Gln Leu Arg Glu Leu
85 90 95

Pro Glu Lys Asn Ser Asn
100

<210> 1720
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1720
Ala Gln Trp Leu Thr Pro Val Ile Leu Ala Phe Trp Lys Ala Glu Ala
1 5 10 15

Gly Gly Ser Leu

20

<210> 1721

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1721

Ile Arg His Glu Val Leu Ile Val Pro Leu Leu Val Gly Leu Arg Gln
1 5 10 15

Glu Asp His Leu Ser Pro Gly Gly Arg Gly Tyr Ser Glu Pro Arg Val
20 25 30

His Tyr Cys Thr Pro Ala Arg Xaa Arg Glu Arg Asp Pro Val Ser Ile
35 40 45

Asn Lys
50

<210> 1722

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1722

Glu Xaa Gly Thr Glu Ser His Tyr Val Thr Gln Ala Gly Val Gln Trp
1 5 10 15

His Asp Leu Ser Ser Leu Gln Pro Ser Pro Pro Gly Phe Lys Arg Phe
20 25 30

Ser Cys Leu Arg Leu Leu Ser Ser Trp Asp Tyr Arg His Thr Pro Pro
35 40 45

Arg Pro Ala Asn Phe Leu Tyr Phe
50 55

<210> 1723
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1723
Gly Ser Thr His Ala Ser Ala Met Xaa Xaa Xaa Thr Ser Gly Val Gly
1 5 10 15
Asp Glu Trp Trp Pro Lys Gln Gly Asp Ser Lys Gly Arg Ser Gly Gly
20 25 30
Arg Pro Trp Arg Thr Ala Ala Arg Ser Gly Leu Thr Gly Ala Ser Ser
35 40 45
Arg Xaa Arg Trp Thr Thr Ala Pro Arg Trp Ile Ser Ala Tyr Pro Ser
50 55 60

Val Arg Xaa Ala Lys Glu Gly Arg Leu Gln Glu Val Ile Glu Thr Leu
65 70 75 80

Leu Ser Leu Glu Lys Gln Thr Arg Thr Ala Ser Asp Met Val Ser Thr
85 90 95

Ser Arg Ile Leu Val Ala Ser Ser Gly Arg Cys Ala Asn Xaa Gly
100 105 110

<210> 1724

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1724

Gly Arg Gly Arg Cys Glu Xaa Gly Lys Met Ala Ala Ala Val Val
1 5 10 15

Glu Phe Gln Arg Ala Gln Ser Leu Leu Ser Thr Asp Arg Glu Ala Ser
20 25 30

Ile Asp Ile Leu His Ser Ile Val Lys Arg Asp Ile Gln Glu Asn Asp
35 40 45

Glu Glu Ala Val Gln Val Lys Glu Gln Ser Ile Leu Glu Leu Gly Ser
50 55 60

Leu Leu Ala Lys Thr Xaa Gln Ala Ala Glu Leu
65 70 75

<210> 1725

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1725

Pro Gly Ser Arg His His Arg Ala Arg Asp Arg Leu Ile His Phe Gly
1 5 10 15

Ala Val Ser Thr Asp Val Leu Gly Cys Ser Ala His Cys Ser Leu Thr
20 25 30

Gln Ser Pro Lys Met Asn Ile Gln Glu Gln Gly Phe Pro Leu Asp Leu
35 40 45

Gly Ala Ser Phe Thr Glu Asp Ala Pro Pro Xaa Pro Ser Ala Trp
50 55 60

<210> 1726

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1726

Ala Glu Pro Asp Gly Ser His Pro Val Val Xaa Ala Pro Tyr Asn Gly
 1 5 10 15

Gly Pro Ala Gly Thr Cys Pro Lys Ile Lys Gln Glu Ala Val Ser Ser
 20 25 30

Cys Thr His Leu Gly Ala Gly Pro Pro Leu Gln Gln Trp Pro Pro Ala
 35 40 45

Gly Cys His Thr Asp Phe Pro Leu Gly Thr Ala Xaa Pro Gln Gln Asp
 50 55 60

Leu Pro Arg Thr Leu Gly Leu Glu Gly Ser Ala Glu Gln Gln Gly Thr
 65 70 75 80

Val His Pro Ala Leu Pro Val Ser Xaa Arg Val Ser Ile Pro Thr Arg
 85 90 95

Gly Pro Asn Leu Pro Xaa Xaa Phe Leu Xaa Pro Ile Gln Met Gln Pro
 100 105 110

Xaa Val Xaa Xaa Arg Xaa Ile Asn Gln Gly Val Tyr Ala Asn Arg Xaa
 115 120 125

Leu Asp Ala Lys Gly Gly Pro Ser Gln Arg Gly Xaa Arg Arg Leu Trp
 130 135 140

Ala Pro Glu Lys Asp Arg Gln Pro Xaa Phe Asp Xaa Gly Val Trp Glu
 145 150 155 160

Lys Xaa Ser Lys Lys Gly Phe Ser Xaa Phe
 165 170

<210> 1727

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1727

Leu Arg Ala Arg Gly Ala Ala Trp Ala Gly Gly Leu Leu His Arg Ala
 1 5 10 15

Ala Pro Cys Ser Leu Leu Pro Arg Leu Arg Thr Trp Thr Ser Ser Ser
 20 25 30

Asn Arg Ser Arg Glu Asp Ser Trp Leu Lys Ser Leu Phe Val Arg Lys
 35 40 45

Val Asp Pro Arg Lys Asp Ala His Ser Asn Leu Leu Ser Lys Lys Glu
 50 55 60

Thr Ser Asn Leu Tyr Lys Leu Gln Phe His Asn Val Lys Pro Glu Cys
 65 70 75 80

Leu Glu Xaa Tyr Asn Lys Ile Cys Gln Glu Val Leu Pro Lys Ile His
 85 90 95

Xaa Xaa

<210> 1728

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1728

Gly Ser Leu Phe Pro Arg Val Leu Pro Ser Pro Leu Gly Pro Pro Gly
 1 5 10 15

Gly Lys His Gly Val Cys Pro Gly Ala Val Arg Glu Gln Cys Pro Thr
 20 25 30

Ala Leu Ser Ser Arg Phe Val Lys Phe Ser Met Pro Ser Val Pro Asp
 35 40 45

Phe Glu Thr Leu Phe Ser Gln Val Gln Leu Phe Ile Ser Thr Cys Asn

50 55 60
Gly Glu His Ile Arg Tyr Ala Thr Asp Thr Phe Ala Gly Leu Cys His
65 70 75 80
Gln Leu Thr Asn Ala Leu Val Glu Arg Lys Gln Pro Leu Arg Gly Ile
85 90 95
Gly Ile Leu Lys Gln Ala Ile Asp Lys Met Gln Met Asn Thr Asn Gln
100 105 110
Leu Thr Ser Ile His Xaa Asp Leu Cys Gln Leu Val Cys
115 120 125

<210> 1729

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1729

Ile Leu Thr Met Arg Glu Ile Val His Ile Gln Ala Gly Gln Cys Gly
1 5 10 15

Asn Gln Ile Gly Ala Lys Phe Trp Glu Val Ile Ser Asp Glu His Gly
20 25 30

His Arg Pro His Arg Ala Pro Thr Thr Gly Asp Ser Asp Leu Pro Ala
35 40 45

Gly Thr Ala Xaa Ser Val Tyr
50 55

<210> 1730

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1730

Arg Ile Ala Ala Ser Glu Thr Arg Val Ala Pro Ser Val Leu Arg Leu
1 5 10 15

Ala Met Thr Ser Tyr Ser Tyr Arg Gln Ser Ser Ala Thr Ser Ser Phe

	20		25		30
Gly Gly Leu Gly Gly Gly Ser Val Arg Phe Gly Pro Gly Val Ala Phe					
	35		40		45
Arg Ala Pro Ser Ile His Gly Gly Ser Gly Gly Arg Gly Val Ser Val					
	50		55		60
Ser Ser Ala Arg Phe Val Ser Ser Ser Ser Ser Gly Gly Tyr Gly Gly					
	65		70		75
					80
Gly Tyr Gly Gly Val Leu Thr Ala Ser Asp Gly Leu Leu Ala Gly Asn					
		85		90	95
Glu Lys Leu Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu					
	100		105		110
Asp Lys Val Arg Ala Leu Glu Ala Ala Asn Gly Glu Leu Glu Val Lys					
	115		120		125

<210> 1731

<211> 156

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1731

Ser Thr His Ala Ser Ala His Ala Ser Glu Trp Ser Glu Glu Gln Leu					
1		5		10	15

Ile Ala Ala Lys Phe Cys Phe Ala Gly Leu Leu Ile Gly Gln Thr Glu					
	20		25		30

Val Asp Ile Met Ser Xaa Ala Thr Gln Ala Ile Phe Glu Ile Leu Glu
35 40 45

Lys Ser Trp Leu Pro Gln Asn Cys Thr Leu Val Asp Met Lys Ile Glu
50 55 60

Phe Gly Val Asp Val Thr Thr Lys Glu Ile Val Leu Ala Asp Val Ile
65 70 75 80

Asp Asn Asp Ser Trp Arg Leu Trp Pro Ser Gly Asp Arg Ser Gln Gln
85 90 95

Lys Asp Lys Gln Ser Tyr Arg Asp Leu Lys Glu Val Thr Pro Glu Gly
100 105 110

Leu Gln Met Val Lys Arg Asn Phe Glu Trp Val Ala Glu Arg Val Glu
115 120 125

Leu Leu Leu Lys Ser Xaa Ser Gln Cys Arg Val Val Val Leu Xaa Gly
130 135 140

Ser Thr Ser Asp Leu Gly His Cys Glu Lys Ile Gln
145 150 155

<210> 1732

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1732
Val Asp Ile Arg Lys Asp Leu Tyr Ala Asn Thr Val Leu Ser Gly Gly
1 5 10 15
Thr Thr Met Tyr Pro Gly Ile Ala Asp Arg Met Gln Xaa Glu Ile Thr
20 25 30
Ala Leu Ala Pro Ser Thr Met Lys Ile Lys Ile Ile Ala Pro Pro Glu
35 40 45
Arg Lys Tyr Ser Val Trp Ile Gly Gly Ser Ile Leu Ala Ser Leu Ser
50 55 60
Thr Phe Gln Xaa Xaa Trp Ile Thr Ser Arg Ser Thr Thr Xaa Arg Xaa
65 70 75 80
Pro Pro Ser Ser Thr Ala Asn Ala Ser Asn Xaa Leu Xaa Xaa Ala Tyr
85 90 95
His Cys Cys Met Gly
100

<210> 1733
<211> 101
<212> PRT
<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1733

Ala Arg Arg Arg Gln Lys Gly Pro Ala Ala Pro Glu Ser Lys Pro Val
1 5 10 15

Pro Ala Gln Ser Arg Pro Ala Ala Val Cys Leu Leu Phe Gln His Asp
20 25 30

Arg Cys Arg Cys Val Leu Arg Gln Gly Leu Pro Gly Arg Trp Ser Gly
35 40 45

Arg Ser His Leu Lys Thr Ala Val Xaa Pro Ser Ser Gly Ser Ser Cys
50 55 60

Cys Cys Ser Cys Asn Ala Ser Lys Gln Ile Thr Ala Asp Lys Gln Cys
65 70 75 80

Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu Gln Asp Ser
85 90 95

Val Leu Leu Ala Xaa
100

<210> 1734

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1734

Ala Arg Val His Leu Glu Leu Gln Glu Ala Arg Val Met Leu Val Pro
1 5 10 15

Leu Val Asn Val Asp Leu Leu Asp Trp Gln Gly Pro Gln Asp Leu Glu
20 25 30

Val Glu Leu Val Pro Leu Val Pro Lys Glu Glu Arg Val Leu Leu Val
35 40 45

Leu Leu Gly His Leu Val Leu Leu Val Leu Leu Val Cys Lys Glu Cys
50 55 60

Leu Glu Lys Glu Glu Val Leu Glu Val Leu Val Gln Arg Val Thr Arg
65 70 75 80

Val Asn Gln Ala Val Gln Val Leu Met Val Ser Gln Gly Lys Met Ala
85 90 95

Gln Gly Val Leu Xaa Val Leu Leu Val Leu Leu Ala Gln Leu Ala Ser
100 105 110

Leu Glu Ile Lys Gly Glu Gly Gly Ala Pro Gly Phe Pro Xaa Ile Ser
115 120 125

Trp Thr Cys Gly Xaa Pro Gly Glu Arg Gly Glu Met Ala Xaa Gln Asp
130 135 140

Xaa Trp Phe Xaa Trp Cys Ser Trp
145 150

<210> 1735

<211> 26

<212> PRT

<213> Homo sapiens

<400> 1735

Val Arg Ala Arg Val Pro Ser Pro Ala Ala Ala Met Gly Cys Thr Leu
1 5 10 15

Ser Ala Glu Asp Lys Ala Ala Val Glu Arg
20 25

<210> 1736

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1736

His Glu Val Ser Ala Ala Ser Leu Val Pro Ala Val Pro Gln Pro Glu
1 5 10 15

Ala Asp Asn Leu Thr Leu Arg Tyr Arg Ser Leu Val Tyr Gln Leu Asn
20 25 30

Phe Asp Gln Thr Leu Arg Asn Val Asp Lys Ala Gly Thr Trp Ala Pro
35 40 45

Arg Glu Leu Val Leu Val Val Gln Val His Asn Arg Pro Glu Tyr Leu
50 55 60

Arg Leu Leu Leu Asp Ser Leu Arg Lys Ala Gln Gly Ile Asp Asn Val
65 70 75 80

Leu Val Ile Phe Ser His Asp Ser Gly Arg Pro Arg Ser Ile Ser
85 90 95

<210> 1737

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1737

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met

1 5 10 15
Arg Arg His Ser Ser Ser Ile Glu Ser Pro Lys Phe Asn Ser Leu Ala
20 25 30
Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
35 40 45
Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu
50 55 60
Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Xaa
65 70 75

<210> 1738

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1738

Leu Ile Xaa His Ile Gly Xaa Gly Xaa Cys Ser Thr Val Xaa Ile Pro
1 5 10 15

Gly Ser Arg Asp Pro Ser Leu Arg Thr Ala His Ala Arg His Ser Ser
20 25 30

Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg
35 40 45

Arg Asp Trp Glu Asn Xaa Xaa
50 55

<210> 1739

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1739

Ser Arg Gly Ser Lys Leu Thr Xaa Ala Cys Met Arg Arg His Ser Ser
1 5 10 15

Ser Ile Val Ser Ala Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg
20 25 30

Arg Xaa Trp Glu Xaa
35

<210> 1740

<211> 110

<212> PRT

<213> Homo sapiens

<400> 1740

Leu Thr Glu Thr Arg Phe Lys Thr Gly Thr Thr Leu Lys Tyr Thr Cys
1 5 10 15

Leu Pro Gly Tyr Val Arg Ser His Ser Thr Gln Thr Leu Thr Cys Asn
20 25 30

Ser Asp Gly Glu Trp Val Tyr Asn Thr Phe Cys Ile Tyr Lys Arg Cys
35 40 45

Arg His Pro Gly Glu Leu Arg Asn Gly Gln Val Glu Ile Lys Thr Asp
50 55 60

Leu Ser Phe Gly Ser Gln Ile Glu Phe Ser Cys Ser Glu Gly Phe Phe
65 70 75 80

Leu Ile Gly Ser Thr Thr Ser Arg Cys Glu Val Gln Asp Arg Gly Val
85 90 95

Gly Trp Ser His Pro Leu Pro Gln Cys Glu Ile Val Gln Val
100 105 110

<210> 1741

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1741

Gln Val His Leu Asp Gln Val Glu Val Ala Ser Xaa Leu Thr Leu Cys
1 5 10 15
Lys Glu Gly Cys Xaa Ala Ile Val Asp Thr Gly Thr Ser Leu Met Val
20 25 30
Gly Pro Val Asp Xaa Val Arg Xaa Cys Arg Arg Pro Ser Gly Pro Cys
35 40 45

Arg

<210> 1742

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1742

Gly Pro Ser Thr Arg Xaa Xaa Met Ile Glu Tyr Asp Pro Glu Arg Arg
1 5 10 15

Leu Gly Ile Phe Trp Val Ser Cys Glu Ala Gly Thr Tyr Ile Arg Thr
20 25 30

Leu Cys Val His Leu Gly Leu Leu Leu Gly Val Gly Gly Gln Met Gln
35 40 45

Glu Leu Arg Arg Val Arg Ser Gly Val Met Ser Xaa Lys Asp His Xaa
50 55 60

Val Thr Met His Asp Val Leu Xaa Ala Gln Trp Leu Tyr Xaa Asn His
65 70 75 80

Lys Asp Glu Ser Xaa Leu Arg Gly Val Val
85 90

<210> 1743

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>

<221> SITE

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<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (84)

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<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1743

Ala Gly Ser Val Arg Arg Pro Cys Arg Arg Pro Trp Gly Xaa Arg Ala
1 5 10 15

Gly Glu Arg Met Xaa Gly Ala Gly Glu Glu Asp Pro Ala Ala Ala Phe
20 25 30

Leu Ala Gln Xaa Arg Ser Glu Ile Ala Gly Ile Glu Asn Asp Glu Ala
35 40 45

Phe Ala Ile Leu Glu Arg Arg Arg Pro Arg Ala Pro Thr Ala Arg Lys
50 55 60

Val Arg Arg Gly Val Pro Met Leu Leu Xaa Gly Xaa Met Xaa Trp Trp
65 70 75 80

Ile Xaa Thr Xaa Lys Leu Met Val Pro Thr Xaa Ile Met Gln Tyr Phe
85 90 95

Lys Met Asp Arg Leu His Gln Asn Leu Lys Tyr Pro Lys Trp Arg Xaa
100 105 110

Lys Met Glu Xaa
115

<210> 1744

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1744

Arg Val Thr Thr Gly Thr Xaa Xaa Val Leu Val Ala Val Asp Lys Gly

1 5 10 15
 Val Phe Val Leu Asn Lys Xaa Asn Lys Leu Thr Gln Ser Lys Ile Trp
 20 25 30
 Asp Val Val Glu Lys Ala Asp Ile Gly Cys Thr Pro Gly Ser Gly Lys
 35 40 45
 Asp Tyr Ala Gly Val Phe Ser Asp Ala Gly Leu Thr Xaa Thr Ser Ser
 50 55 60
 Ser Gly Gln Gln Thr Ala Gln Xaa Ala Glu Leu Gln Cys Pro Gln Pro
 65 70 75 80
 Ala Ala Arg Arg Arg Xaa Ser Val Gln Leu Thr Glu Lys Arg Met Asp
 85 90 95
 Lys Val Gly Lys Tyr Pro Lys Glu Leu Xaa Lys Cys Cys Glu Asp Gly
 100 105 110
 Ile Arg Glu Asn Pro Met Lys Phe Ser Cys Gln Gly Gly
 115 120 125

<210> 1745

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1745

Gly Ala Ala Val Ser Val Lys Met Ile Glu Val Leu Thr Thr Thr Asp
 1 5 10 15
 Ser Gln Lys Leu Leu His Gln Leu Asn Ala Leu Leu Glu Gln Glu Ser
 20 25 30
 Arg Cys Gln Pro Lys Val Cys Gly Leu Arg Leu Ile Glu Ser Ala His
 35 40 45
 Asp Asn Gly Leu Arg Met Thr Ala Arg Leu Arg Asp Phe Glu Val Lys
 50 55 60
 Asp Leu Leu Ser Leu Thr Gln Phe Leu Ala
 65 70

<210> 1746

<211> 38

<212> PRT

<213> Homo sapiens

<400> 1746

Phe Phe Gly His Pro Glu Val Tyr Ile Leu Ile Leu Pro Gly Phe Gly
1 5 10 15
Ile Ile Ser His Ile Val Thr Tyr Tyr Ser Gly Lys Lys Glu Pro Phe
20 25 30
Gly Tyr Ile Gly Met Val
35

<210> 1747

<211> 35

<212> PRT

<213> Homo sapiens

<400> 1747

Leu Val Pro Asn Ser Ala Arg Glu Thr Phe Leu Thr Ile Cys Phe Ile
1 5 10 15
Arg Gln Leu Ile Phe His Phe Thr Ser Lys His His Phe Gly Phe Glu
20 25 30
Ala Ala Ala
35

<210> 1748

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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 <222> (171)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (172)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (181)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1748
 Ala Arg Val Glu Asn Arg Ala Gln Gln His Trp Gly Ser Gly Val Gly
 1 5 10 15
 Val Lys Lys Leu Cys Glu Leu Gln Pro Glu Glu Lys Cys Cys Val Val
 20 25 30
 Gly Thr Leu Phe Lys Ala Met Pro Leu Gln Pro Ser Ile Leu Arg Glu
 35 40 45
 Val Ser Glu Glu His Asn Leu Leu Pro Gln Pro Pro Arg Ser Lys Tyr
 50 55 60
 Ile His Pro Asp Asp Glu Leu Val Leu Glu Asp Glu Leu Gln Arg Ile
 65 70 75 80
 Lys Leu Lys Gly Thr Ile Asp Val Ser Lys Leu Val Thr Gly Thr Val
 85 90 95
 Leu Ala Val Phe Gly Ser Val Arg Asp Asp Gly Lys Phe Leu Val Glu
 100 105 110

Asp Tyr Cys Phe Val Asp Leu Ala Pro Gln Lys Pro Xaa Pro Pro Leu
 115 120 125
 Thr Gln Leu Gly Xaa Val Xaa Gly Val Arg Pro Gly Pro Gly Trp Arg
 130 135 140
 Trp Arg Arg Glu Xaa Val Gly His Pro Leu Leu Val Asp Xaa Val Thr
 145 150 155 160
 Gly Gln Phe Gly Asp Glu Gly Xaa His Ala Xaa Xaa Pro Ser Phe Pro
 165 170 175
 Val Ile Leu Val Xaa Thr Ser
 180

<210> 1749

<211> 106

<212> PRT

<213> Homo sapiens

<400> 1749

His Glu Ala Glu Ala Ala Pro Val Gly Arg Ala Arg Gly Cys Cys Lys
 1 5 10 15
 Ala Glu Val Ala Ala Glu Ala Glu Thr Met Phe Arg Ala Ala Ala Pro
 20 25 30
 Gly Gln Leu Arg Arg Ala Ala Ser Leu Leu Arg Phe Gln Ser Thr Leu
 35 40 45
 Val Ile Ala Glu His Ala Asn Asp Ser Leu Ala Pro Ile Thr Leu Asn
 50 55 60
 Thr Ile Thr Ala Ala Thr Arg Leu Gly Gly Glu Val Ser Cys Leu Val
 65 70 75 80
 Ala Gly Thr Lys Cys Asp Lys Val Ala Gln Asp Leu Cys Lys Val Ala
 85 90 95
 Gly Ile Ala Lys Ser Ser Gly Gly Ser Ala
 100 105

<210> 1750

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1750

Arg Ser Cys Gly Val Thr Ala Gln Lys Tyr Arg Cys Glu Leu Leu Tyr
 1 5 10 15
 Glu Gly Pro Pro Asp Asp Glu Ala Ala Met Gly Ile Lys Ser Cys Asp
 20 25 30
 Pro Lys Gly Pro Leu Met Met Tyr Ile Ser Lys Met Val Pro Thr Ser
 35 40 45
 Asp Lys Gly Arg Phe Tyr Ala Phe Gly Arg Val Phe Ser Gly Leu Val
 50 55 60
 Ser Thr Gly Leu Lys Val Arg Ile Met Gly Pro Asn Tyr Thr Pro Gly
 65 70 75 80
 Lys Lys Glu Asp Leu Tyr Leu Lys Pro Ile Gln Arg Thr Ile Leu Met
 85 90 95
 Met Gly Arg

<210> 1751

<211> 124

<212> PRT

<213> Homo sapiens

<400> 1751

Ala Ala Gln Pro Arg Leu Met Glu Pro Ile Tyr Leu Val Glu Ile Gln
 1 5 10 15
 Cys Pro Glu Gln Val Val Gly Gly Ile Tyr Gly Val Leu Asn Arg Lys
 20 25 30
 Arg Gly His Val Phe Glu Glu Ser Gln Val Ala Gly Thr Pro Met Phe
 35 40 45
 Val Val Lys Ala Tyr Leu Pro Val Asn Glu Ser Phe Gly Phe Thr Ala
 50 55 60
 Asp Leu Arg Ser Asn Thr Gly Gly Gln Ala Phe Pro Gln Cys Val Phe
 65 70 75 80
 Asp His Trp Gln Ile Leu Pro Gly Asp Pro Phe Asp Asn Ser Ser Arg
 85 90 95
 Pro Ser Gln Val Val Ala Glu Thr Arg Lys Arg Lys Gly Leu Lys Glu
 100 105 110

Gly Ile Pro Ala Leu Asp Asn Phe Leu Asp Lys Leu
115 120

<210> 1752

<211> 180

<212> PRT

<213> Homo sapiens

<400> 1752

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Ala Ala Ala Leu Glu Leu
1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Gln Phe Ala Arg
20 25 30

Ser Leu Ser Ala Ala Pro Gln Leu Ser Asp Thr Ala Asp Thr Met Gly
35 40 45

Phe Gly Asp Leu Lys Ser Pro Ala Gly Leu Gln Val Leu Asn Asp Tyr
50 55 60

Leu Ala Asp Lys Ser Tyr Ile Glu Gly Tyr Val Pro Ser Gln Ala Asp
65 70 75 80

Val Ala Val Phe Glu Ala Val Ser Ser Pro Pro Pro Ala Asp Leu Cys
85 90 95

His Ala Leu Arg Trp Tyr Asn His Ile Lys Ser Tyr Glu Lys Glu Lys
100 105 110

Ala Ser Leu Pro Gly Val Lys Lys Ala Leu Gly Lys Tyr Gly Pro Ala
115 120 125

Asp Val Glu Asp Thr Thr Gly Ser Gly Ala Thr Asp Ser Lys Asp Asp
130 135 140

Asp Asp Ile Asp Leu Phe Gly Ser Asp Asp Glu Glu Ser Glu Glu
145 150 155 160

Ala Lys Arg Leu Arg Glu Glu Arg Leu Ala Gln Tyr Glu Ser Lys Lys
165 170 175

Ala Lys Lys Pro
180

<210> 1753

<211> 126
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1753

Arg Xaa Lys Xaa Xaa Xaa Thr Ala Val Arg Xaa Ser Arg Leu Val Asp
 1 5 10 15

Pro Pro Gly Cys Arg Asn Trp His Glu Val Ser Phe Cys Asp Leu Cys
 20 25 30

Trp Asp Trp Lys Met Ser Ser Gly Asn Ala Lys Ile Gly His Pro Ala
 35 40 45

Pro Asn Phe Lys Ala Thr Ala Val Met Pro Asp Gly Gln Phe Lys Asp
 50 55 60

Ile Ser Leu Ser Asp Tyr Lys Gly Lys Tyr Val Val Phe Phe Phe Tyr
 65 70 75 80

Pro Leu Asp Phe Thr Phe Val Cys Pro Thr Glu Ile Ile Ala Phe Ser
 85 90 95

Asp Arg Ala Glu Glu Phe Lys Lys Leu Asn Cys Gln Val Ile Gly Ala
 100 105 110

Ser Val Asp Ser His Phe Cys His Leu Ala Trp Val Asn Thr
115 120 125

<210> 1754
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1754
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Ser Xaa Gly Gly Xaa Leu
1 5 10 15
Val His Pro Xaa Xaa Val Xaa Xaa Ala Ala His Cys Leu Lys Lys Asn
20 25 30
Ser Gln Xaa Trp Leu Gly Arg His Asn Leu Xaa Glu Pro Xaa Asp Thr
35 40 45
Xaa Gln Arg Val Pro Xaa Ser His Ser Phe Pro His Pro Leu
50 55 60

<210> 1755
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1755

Glu	Xaa	Cys	Val	Ser	Xaa	Leu	Gly	Cys	Trp	Arg	Phe	Asn	Pro	Gln	Cys
1				5					10					15	
Phe	His	Xaa	Asn	Arg	Gly	Pro	Ile	Lys	Phe	Asn	Val	Xaa	Gly	His	Ser
			20					25					30		
Arg	Pro	Gly	Glu	Phe	Arg	Gly	Leu	Glu	Xaa						
			35				40								

<210> 1756

<211> 174

<212> PRT

<213> Homo sapiens

<400> 1756

Arg	Glu	Gln	Lys	Leu	Glu	Leu	His	Arg	Gly	Ala	Ala	Ala	Leu	Glu	Leu
1				5					10					15	
Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Ala	Gly	Met	Gln	Lys
			20					25					30		
Ala	Asp	Val	Tyr	Ser	Phe	Gly	Ile	Ile	Leu	Gln	Glu	Ile	Ala	Leu	Arg
			35				40					45			
Ser	Gly	Pro	Phe	Tyr	Leu	Glu	Gly	Leu	Asp	Leu	Ser	Pro	Lys	Glu	Ile
	50						55				60				
Val	Gln	Lys	Val	Arg	Asn	Gly	Gln	Arg	Pro	Tyr	Phe	Arg	Pro	Ser	Ile
65					70					75				80	
Asp	Arg	Thr	Gln	Leu	Asn	Glu	Glu	Leu	Val	Leu	Leu	Met	Glu	Arg	Cys
				85					90					95	
Trp	Ala	Gln	Asp	Pro	Ala	Glu	Arg	Pro	Asp	Phe	Gly	Gln	Ile	Lys	Gly
			100					105					110		
Phe	Ile	Arg	Arg	Phe	Asn	Lys	Glu	Gly	Gly	Thr	Ser	Ile	Leu	Asp	Asn
			115				120						125		
Leu	Leu	Leu	Arg	Met	Glu	Gln	Tyr	Ala	Asn	Asn	Leu	Glu	Lys	Leu	Val

130 135 140
 Glu Glu Arg Thr Gln Ala Tyr Leu Glu Glu Lys Arg Lys Ala Glu Ala
 145 150 155 160
 Leu Leu Tyr Gln Ile Leu Pro His Ser Val Ala Glu Gln Leu
 165 170

<210> 1757
 <211> 128
 <212> PRT
 <213> Homo sapiens

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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1757
 Glu Thr Xaa Lys Xaa Phe Lys Asp Pro Asn Ala Pro Lys Arg Pro Pro
 1 5 10 15

Ser Ala Phe Phe Leu Phe Cys Ser Glu Tyr Arg Pro Lys Ile Lys Gly
 20 25 30

Glu His Pro Gly Leu Ser Ile Gly Asp Val Ala Lys Lys Leu Gly Glu
35 40 45
Met Trp Asn Asn Thr Ala Ala Asp Asp Lys Gln Pro Tyr Glu Lys Lys
50 55 60
Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Ile Ala Ala Tyr Arg
65 70 75 80
Ala Lys Gly Lys Pro Asp Ala Ala Lys Lys Gly Val Val Lys Ala Glu
85 90 95
Lys Ser Lys Lys Lys Lys Glu Glu Glu Glu Asp Glu Glu Asp Glu Glu
100 105 110
Asp Glu Glu Glu Glu Glu Asp Glu Glu Asp Glu Xaa Xaa Xaa His Xaa
115 120 125

<210> 1758
<211> 31
<212> PRT
<213> Homo sapiens

<400> 1758
Ala Arg Glu Asn Val Arg Pro Asp Tyr Leu Lys Ala Ile Trp Asn Val
1 5 10 15
Ile Asn Trp Glu Asn Val Thr Glu Arg Tyr Met Ala Cys Lys Lys
20 25 30

<210> 1759
<211> 64
<212> PRT
<213> Homo sapiens

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<222> (5)
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1759

Arg Glu Gln Lys Xaa Glu Leu His Arg Gly Ala Xaa Arg Ser Arg Thr
1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Ser Ala Arg Gln
20 25 30

Arg Xaa Lys Val Leu Ala His Phe Tyr Gly Val Lys Leu Glu Gly Lys
35 40 45

Val Pro Met His Lys Leu Phe Leu Glu Met Leu Glu Ala Met Met Asp
50 55 60

<210> 1760

<211> 106

<212> PRT

<213> Homo sapiens

<400> 1760

Lys Met Ala Ser Asn Lys Thr Thr Leu Gln Lys Met Gly Lys Lys Gln
1 5 10 15

Asn Gly Lys Ser Lys Lys Val Glu Glu Ala Glu Pro Glu Glu Phe Val
20 25 30

Val Glu Lys Val Leu Asp Arg Arg Val Val Asn Gly Lys Val Glu Tyr
35 40 45

Phe Leu Lys Trp Lys Gly Phe Thr Asp Ala Asp Asn Thr Trp Glu Pro
50 55 60

Glu Glu Asn Leu Asp Cys Pro Glu Leu Ile Glu Ala Phe Leu Asn Ser
65 70 75 80

Gln Lys Ala Gly Lys Glu Lys Asp Gly Thr Lys Arg Lys Ser Leu Ser
85 90 95

Asp Ser Gly Ser Asp Asp Ser Lys Gln Arg
100 105

<210> 1761

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1761

Ala Pro Ala Ser Pro Leu Leu Glu Met Asp Pro Asn Cys Ser Cys Ala
1 5 10 15

Thr Gly Gly Ser Cys Thr Cys Ala Gly Ser Cys Lys Cys Lys Glu Cys
20 25 30

Lys Cys Thr Ser Cys Lys Lys Ser Cys Cys Ser Cys Cys Pro Val Gly
35 40 45

Cys Ala Lys Cys Ala Gln Gly Cys Val Cys Lys Gly Ala Ser Glu Lys
50 55 60

Cys Ser Cys Cys Ala
65

<210> 1762

<211> 41

<212> PRT

<213> Homo sapiens

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<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1762

Pro Cys Lys Gly Ser Ile Ile Thr Trp Ser Leu Ile Xaa Asp Leu Tyr
1 5 10 15

Glu Trp Leu His Glu Gly Ser Ser Xaa Leu Leu Leu Leu Thr Ser Glu
20 25 30

Asn Asp Leu Xaa Xaa Lys Arg Arg Ala
35 40

<210> 1763

<211> 154

<212> PRT

<213> Homo sapiens

<220>

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<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1763

Pro Thr Arg Pro Pro Thr Arg Pro Pro Ser Pro Asn Met Ala Ala Ser
1 5 10 15

Ala Lys Lys Lys Asn Lys Lys Gly Lys Thr Ile Ser Leu Thr Asp Phe
20 25 30

Leu Ala Glu Asp Gly Gly Thr Gly Gly Gly Ser Thr Tyr Val Ser Lys
35 40 45

Pro Val Ser Trp Ala Asp Glu Thr Asp Asp Leu Glu Gly Asp Val Ser
50 55 60

Thr Thr Trp His Ser Asn Asp Asp Asp Val Tyr Arg Ala Pro Pro Ile
65 70 75 80

Asp Arg Ser Ile Leu Pro Thr Ala Pro Arg Ala Ala Arg Glu Pro Asn
85 90 95

Ile Asp Arg Ser Arg Leu Pro Lys Ser Pro Pro Tyr Thr Ala Phe Leu
100 105 110

Gly Asn Leu Pro Tyr Asp Val Thr Glu Glu Ser Ile Lys Glu Phe Phe
115 120 125

Arg Gly Leu Asn Ile Ser Ala Val Arg Leu Pro Arg Glu Pro Ser Asn
130 135 140

Pro Glu Xaa Leu Lys Gly Leu Gly Met Leu

145

150

<210> 1764

<211> 80

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1764

Ala Xaa Xaa Phe Pro Tyr Thr Val Asp Asn Ala Arg Ile Val Leu Xaa
1 5 10 15

Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Gly Xaa Tyr Glu
20 25 30

Thr Asp Leu Ala Met Arg Xaa Ser Val Xaa Asn Asp Ile His Gly Leu
35 40 45

Arg Lys Val Ile Asp Asp Thr Asn Ile Thr Arg Leu Xaa Leu Glu Thr
50 55 60

Glu Ile Glu Xaa Leu Xaa Glu Asp Leu Leu Phe Met Xaa Xaa Asn His
65 70 75 80

<210> 1765

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1765

Phe Gly Thr Arg Arg Asn Val Lys Leu Ile Ala Leu Ser Ile Asp Ser
1 5 10 15

Val Glu Asp His Leu Ala Trp Ser Lys Xaa Ile Asn Ala Tyr Asn Cys
20 25 30

Glu Glu Pro Thr Glu Lys Leu Pro Phe Pro Ile Ile Asp Asp Arg Asn
35 40 45

Arg Glu Leu Ala Ile Leu Leu Gly Met Leu Asp Pro Ala Arg Glu Gly
50 55 60

<210> 1766

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1766

Ile Arg His Glu Gln Ala Ala Ser Ser Pro Glu Pro Thr Gly Cys Leu
1 5 10 15

Leu Ser Gln Arg Arg Pro Leu Ile Thr Val Ala Met Pro Gly Gly Leu
20 25 30

Leu Leu Gly Asp Val Ala Pro Asn Phe Glu Ala Asn Thr Thr Val Gly
35 40 45

Arg Ile Arg Phe His Asp Phe Leu Gly Asp Ser Trp Gly Ile Leu Phe
50 55 60

Ser His Pro Arg Asp Phe Thr Pro Val Cys Thr Thr Glu Leu Gly Arg
65 70 75 80

Ala Ala Lys Trp His Gln Asn Leu Xaa Arg Gly Met Leu Ser
85 90

<210> 1767

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1767

Gly Val Ser Cys Thr Xaa Pro Val Leu Gln Val Gln Arg Val Gln Met
1 5 10 15

His Leu Leu Gln Glu Glu Leu Leu Leu Leu Pro Cys Gly Cys Ala
20 25 30

Lys Cys Ala Gln Gly Cys Ile Cys Lys Gly Ala Ser Glu Lys Cys Ser
35 40 45

Cys Cys Ala
50

<210> 1768

<211> 143

<212> PRT

<213> Homo sapiens

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<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1768

Gln Arg Thr Xaa Gly Asn Xaa Xaa Ala Cys Arg Tyr Arg Thr Gly Ile
1 5 10 15

Pro Gly Ser Thr His Ala Ser Gly Arg Gly His Gly Leu Ile Ala Val
20 25 30

Cys Ala Leu His Ser Val Pro His Ser Pro Pro Thr Thr Cys Leu Ala
35 40 45

Glu Arg Thr Pro Cys Arg Arg Pro Ala Glu Met Leu Arg Leu Pro Thr
50 55 60

Val Phe Arg Gln Met Arg Pro Val Ser Arg Val Leu Ala Pro His Leu
65 70 75 80

Thr Arg Ala Tyr Ala Lys Asp Val Lys Phe Gly Ala Asp Ala Arg Ala
85 90 95
Leu Met Leu Gln Gly Val Asp Leu Leu Ala Asp Ala Val Ala Val Thr
100 105 110
Met Gly Pro Lys Gly Arg Thr Val Ile Ile Glu Gln Ser Trp Gly Ser
115 120 125
Pro Lys Val Thr Arg Asp Gly Val Thr Val Ala Lys Ser Leu Thr
130 135 140

<210> 1769

<211> 168

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)

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<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1769

Asn Ser Ala Arg Ala Cys Xaa Ala Glu Arg Thr Xaa Cys Arg Arg Pro
1 5 10 15

Ala Glu Met Leu Arg Leu Pro Thr Val Phe Arg Gln Met Arg Pro Val
20 25 30

Ser Arg Val Leu Ala Pro His Leu Xaa Arg Ala Tyr Ala Lys Xaa Val
35 40 45

Lys Phe Gly Ala Asp Ala Arg Ala Leu Met Leu Gln Gly Val Asp Leu
50 55 60

Leu Ala Asp Ala Val Ala Val Thr Met Gly Pro Lys Gly Arg Thr Val
65 70 75 80

Ile Ile Glu Gln Ser Trp Gly Ser Pro Lys Val Thr Lys Asp Gly Val
85 90 95

Thr Val Ala Lys Ser Ile Asp Leu Lys Asp Lys Tyr Lys Asn Ile Gly
100 105 110

Ala Lys Xaa Val Gln Asp Val Ala Xaa Asn Thr Ile Glu Glu Leu Gly
115 120 125

Met Ala Xaa Pro Cys Tyr Cys Tyr Gly Thr Ser Ile Ala Lys Glu Gly
130 135 140

Phe Glu Lys Val Ser Lys Val Leu Ile His Gly Asn Gln Glu Arg Cys
145 150 155 160

Asp Val Xaa Val Asp Ala Val Leu
165

<210> 1770

<211> 148

<212> PRT

<213> Homo sapiens

<400> 1770

Gly Ala Glu Ala Phe Gly Ala Ala Lys Met Pro Asp Tyr Leu Gly Ala
 1 5 10 15
 Asp Gln Arg Lys Thr Lys Glu Asp Glu Lys Asp Asp Lys Pro Ile Arg
 20 25 30
 Ala Leu Asp Glu Gly Asp Ile Ala Leu Leu Lys Thr Tyr Gly Gln Ser
 35 40 45
 Thr Tyr Ser Arg Gln Ile Lys Gln Val Glu Asp Asp Ile Gln Gln Leu
 50 55 60
 Leu Lys Lys Ile Asn Glu Leu Thr Gly Ile Lys Glu Ser Asp Thr Gly
 65 70 75 80
 Leu Ala Pro Pro Ala Leu Trp Asp Leu Ala Ala Asp Lys Gln Thr Leu
 85 90 95
 Gln Ser Glu Gln Pro Leu Gln Val Ala Arg Cys Thr Lys Ile Ile Asn
 100 105 110
 Ala Asp Ser Glu Asp Pro Lys Tyr Ile Ile Asn Val Lys Gln Phe Ala
 115 120 125
 Lys Phe Val Val Asp Leu Ser Asp Gln Val Ala Pro Thr Asp Ile Glu
 130 135 140
 Glu Gly Met Arg
 145

<210> 1771

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1771

Gly Arg Met Ala Glu Ser Ser Asp Lys Leu Tyr Arg Val Glu Tyr Ala
 1 5 10 15
 Lys Ser Gly Arg Ala Ser Cys Lys Lys Cys Ser Glu Thr Ser Pro Arg
 20 25 30
 Thr Arg Ser Gly Trp Xaa Ser Trp Cys Ile Ala His Val
 35 40 45

<210> 1772

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1772

Leu Glu Ala Glu Xaa Ser Leu Ser Arg Gly Asp Trp Tyr Lys Thr Lys
1 5 10 15

Glu Ile Leu Leu Lys Gly Pro Asp Trp Ile Leu Gly Glu Ile Lys Thr
20 25 30

Ser Gly Leu Arg Gly Arg Gly Gly Ala Gly Phe Pro Asn Gly Leu Lys
35 40 45

Trp Xaa Phe Met Ile Arg Pro Gln Met Ala Gly Pro Ser Ile Trp Trp
50 55 60

Xaa Asn Ala Asn Glu Gly Gly Ala Gly Xaa Leu Xaa Glu Pro Gly Gly
65 70 75 80

Phe

<210> 1773

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1773

Cys Glu Lys Thr Thr Glu Gly Ala Leu Pro Ser Ser Thr Ala Ala Ala
1 5 10 15

Ser Phe Phe Cys Arg Ser Trp Cys Cys Leu Cys Ala Arg Leu Val Arg
20 25 30

Thr Trp Tyr Leu Phe Cys Glu Ala Ala Ala Glu Glu Thr Pro Ala Leu
35 40 45

Ala Met Ala Asp Glu Lys Pro Lys Glu Gly Val Lys Thr Glu Asn Asn
50 55 60

Asp His Ile Asn Leu Lys Val Ala Gly Gln Asp Gly Ser Val Val Gln
65 70 75 80

Phe Lys Ile Lys Arg His Thr Pro Leu Ser Lys Leu Met Lys Ala Tyr
85 90 95

Cys Glu Arg Gln Gly Leu Ser Met Lys Gln Ile Arg Phe Arg Phe Xaa
100 105 110

Gly Gln Pro Ile Asn Xaa Thr Asp Thr Pro Ala Gln Leu Gly Asn Gly
115 120 125

Arg Met Lys Ile Pro Met Met Cys Ser Lys Gln Gln Thr Gly Gly Val
130 135 140

Tyr

145

<210> 1774

<211> 122

<212> PRT

<213> Homo sapiens

<220>

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<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1774

His	Ala	Ser	Ala	His	Ala	Ser	Ala	Pro	Leu	Ala	Met	Ala	Ser	Leu	Thr
1				5					10					15	

Val	Lys	Ala	Tyr	Leu	Leu	Gly	Lys	Glu	Asp	Ala	Ala	Arg	Glu	Ile	Arg
			20					25					30		

Arg	Phe	Ser	Phe	Cys	Cys	Ser	Pro	Glu	Pro	Glu	Ala	Gly	Ser	Xaa	Ala
		35					40					45			

Ala	Ala	Gly	Pro	Gly	Pro	Leu	Arg	Ala	Ala	Ala	Glu	Pro	Gly	Gly	Arg
	50					55					60				

Pro	Val	Pro	Arg	Ala	Ala	Ala	Trp	Arg	Leu	Ser	Arg	Arg	Thr	Thr	Ala
65				70					75						80

Ile	Glu	Asp	Gly	Asp	Leu	Leu	Leu	Phe	Ser	Ile	Asp	Glu	Asp	Leu	Thr
				85					90					95	

Trp	Ala	Cys	Ser	Thr	Leu	Lys	Met	Asn	Leu	Xaa	Asp	Phe	Xaa	Phe	Xaa
			100					105					110		

Glu Lys Xaa Phe Pro Ala Gly Thr Arg Gln
115 120

<210> 1775

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1775

Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg
1 5 10 15

Asn Glu Leu Arg Val Ala Pro Glu Glu His Pro Thr Leu Leu Thr Glu

20 25 30
Ala Pro Leu Asn Pro Lys Ala Asn Arg Glu Lys Met Thr Gln Ile Met
35 40 45
Phe Glu Thr Phe Asn Val Gln Ala Met Xaa Leu Ala Ile Gln Ala Val
50 55 60
Leu Ser Leu Tyr Ala Ser Gly Xaa Thr Met Glu Ser Cys Trp Thr Leu
65 70 75 80
Glu Met Val Ser Pro Xaa Met Ser Gln Xaa Met Arg Ala Met Leu Xaa
85 90 95
Pro Met Gln Xaa Met Gly Leu Xaa Leu
100 105

<210> 1776

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1776

Pro Leu Arg Gly Asn Val Val Pro Ser Pro Leu Pro Thr Arg Xaa Thr
1 5 10 15

Arg Thr Phe Ser Ala Thr Val Arg Ala Ser Xaa Gly Pro Val Tyr Lys
20 25 30

Gly Val Cys Lys Cys Phe Xaa Arg Ser Lys Gly His Gly Phe Xaa Xaa
35 40 45

Pro Ala Asp Gly Gly Pro Asp Ile Phe Leu His Ile Phe Glu Xaa Xaa
50 55 60

Arg Gly Ser Met Xaa Xaa Trp Lys Ala Thr Arg Ser Xaa Ile Lys Cys
65 70 75 80

Ala Ser Ile Pro Pro Lys Xaa Glu Lys Leu Gln Ala Val Gly Val Arg
85 90 95

His Gln Ser Pro Gly Thr Arg Xaa Gln Val
100 105

<210> 1777

<211> 90

<212> PRT

<213> Homo sapiens

<400> 1777

Gly Leu Asp Met Phe Ser Phe Val Asp Leu Arg Leu Leu Leu Leu
1 5 10 15

Ala Ala Thr Ala Leu Leu Thr His Gly Gln Glu Glu Gly Gln Val Glu
20 25 30

Gly Gln Asp Glu Asp Ile Pro Pro Ile Thr Cys Val Gln Asn Gly Leu
35 40 45

Arg Tyr His Asp Arg Asp Val Trp Lys Pro Glu Pro Cys Arg Ile Cys
50 55 60

Val Cys Asp Asn Gly Lys Val Leu Cys Asp Asp Val Ile Cys Asp Glu
65 70 75 80

Thr Lys Asn Cys Pro Gly Ala Glu Val Pro
85 90

<210> 1778

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1778
Ile Ile Xaa Asn Thr Glu Asn Leu Val Arg Glu Leu Leu Thr Val Pro
1 5 10 15
Asp Asn Tyr Xaa Val Ile Xaa Leu Ala Xaa Lys Trp Val Arg Pro Ile
20 25 30
Xaa Cys Cys Pro Leu Xaa Leu Ile Gly Leu Lys Ala Xaa Lys Cys Ala
35 40 45
Asp Tyr Val Val Thr Gly Thr Trp Ser Ala Lys Gly Ala Xaa Lys Thr
50 55 60

<210> 1779
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1779

Trp Leu Ser Ser Thr Ala Met Tyr Ser Ala Ala Gly Arg Asp Leu Gly
1 5 10 15

Met Glu Pro His Arg Ala Ala Gly Pro Leu Pro Ala Ala Asn Phe Arg
20 25 30

Pro Asp Val Phe Asn Gly Gly Asp Tyr Thr Gly Gln Leu Leu Glu Lys
35 40 45

Ile Leu Pro Ile Val Ala Ser Glu Tyr Ser Ile Xaa
50 55 60

<210> 1780

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

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<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1780

Thr Leu Xaa Leu His Lys Ile Gln Lys Leu Arg Trp Ala Trp Cys Cys
1 5 10 15

Xaa Pro Ile Val Pro Leu Leu Val Gly Leu Arg Gln Glu Asp His Leu
20 25 30

Ser Pro Gly Gly Arg Gly Tyr Xaa Ala Pro Arg Val His Tyr Cys Thr

35

40

45

Pro Ala Arg Ala Arg Arg Ala Arg Pro Cys Xaa Lys
50 55 60

<210> 1781

<211> 67

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1781

Gly Cys Arg Val Asn Gln Ala Ala Val Xaa Trp His Glu Gln Val Xaa
1 5 10 15

Trp Leu Ser Glu Xaa Arg Xaa Gly Glu Thr Val Tyr Tyr Arg Leu Leu
20 25 30

Pro Xaa Lys Asn Val Xaa Xaa Arg Xaa Ala Arg Gly Leu Val Phe Lys
35 40 45

Glu Cys Arg Gln Ser Ala Ser Met Xaa Arg Val Leu Ala Val Tyr Gly
50 55 60

Val Lys Arg
65

<210> 1782

<211> 152

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1782

Arg Pro Thr Arg Pro Leu Thr Ser Thr Xaa Ala Val Gly Lys Asn Lys
1 5 10 15

Arg Leu Thr Lys Gly Gly Lys Lys Gly Ala Lys Lys Lys Val Val Asp
20 25 30

Pro Phe Ser Lys Lys Asp Trp Tyr Asp Val Lys Ala Pro Ala Met Phe
35 40 45

Asn Ile Arg Asn Ile Gly Lys Thr Leu Val Thr Arg Thr Gln Gly Thr
50 55 60

Lys Ile Ala Ser Asp Gly Leu Lys Gly Arg Val Phe Glu Val Ser Leu
65 70 75 80

Ala Asp Leu Gln Asn Asp Glu Val Ala Phe Arg Lys Phe Lys Leu Ile
85 90 95

Thr Glu Asp Val Gln Gly Lys Asn Cys Leu Thr Asn Phe His Gly Met
100 105 110

Asp Leu Thr Arg Asp Lys Met Cys Ser Met Val Lys Lys Trp Xaa Thr
115 120 125

Met Ile Glu Ala His Val Asp Val Lys Thr Thr Asp Gly Tyr Leu Leu
130 135 140

Arg Cys Ser Xaa Xaa Xaa Xaa Leu
145 150

<210> 1783

<211> 127

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)

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<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1783

His Arg Val Arg Gln Arg Xaa Pro Thr Leu Ala Arg Ala Met Ala Ser
1 5 10 15

Val Ser Glu Leu Ala Cys Ile Tyr Ser Ala Leu Ile Leu His Asp Asp
20 25 30

Glu Val Thr Val Thr Glu Asp Lys Ile Asn Ala Leu Ile Lys Ala Ala
35 40 45

Gly Val Asn Val Glu Pro Phe Trp Pro Gly Leu Phe Ala Lys Ala Leu
50 55 60

Ala Asn Val Asn Ile Gly Ser Leu Ile Cys Asn Val Gly Ala Gly Gly
65 70 75 80

Pro Xaa Pro Ala Ala Gly Ala Ala Pro Ala Gly Gly Pro Ala Pro Ser
85 90 95

Thr Ala Ala Ala Pro Ala Glu Glu Lys Lys Val Glu Ala Lys Lys Glu
100 105 110

Glu Ser Glu Glu Ser Tyr Asp Asp Met Gly Phe Gly Leu Phe Asp
115 120 125

<210> 1784

<211> 101

<212> PRT

<213> Homo sapiens

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<400> 1784

Gly Ser Ala Ala Gly Ser Thr Ala Xaa Ser Leu Leu Ser Thr Gly Xaa
 1 5 10 15

Pro Arg Pro Thr Arg Pro Asp Lys Ala Arg Arg Leu Gly Tyr Lys Ala
 20 25 30

Lys Gln Gly Tyr Val Ile Tyr Arg Ile Arg Val Arg Arg Gly Gly Arg
 35 40 45

Lys Arg Pro Val Pro Lys Gly Ala Thr Tyr Gly Lys Pro Val His His
 50 55 60

Gly Val Xaa Xaa Leu Lys Phe Ala Arg Ser Leu Gln Ser Val Ala Glu
 65 70 75 80

Glu Arg Ala Gly Arg His Cys Gly Ala Leu Arg Val Leu Asn Ser Tyr
 85 90 95

Trp Val Gly Glu Asp
 100

<210> 1785

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1785

Ala Lys Met Gly Ala Tyr Lys Tyr Ile Gln Glu Leu Trp Arg Lys Lys
 1 5 10 15

Gln Ser Asp Val Met Arg Phe Leu Leu Arg Val Arg Cys Trp Gln Tyr
 20 25 30

Arg Gln Leu Ser Ala Leu His Arg Ala Pro Arg Pro Thr Arg Pro Asp
 35 40 45

Lys Ala Arg Arg Leu Gly Tyr Lys Ala Lys Gln Gly Tyr Val Ile Tyr
 50 55 60

Arg Ile Arg Val Arg Arg Gly Gly Arg Lys Arg Pro Val Pro Lys Gly
 65 70 75 80

Ala Ile Thr Ala Ser Leu Ser Ile Met Val Leu Thr Ala Lys Val Cys
85 90 95
Ser Lys Pro Ser Val Arg Cys Arg Gly Ala Ser Trp Thr Pro Leu Trp
100 105 110
Gly Ser Glu Ser Pro Glu Phe Leu Leu Gly Trp
115 120

<210> 1786

<211> 137

<212> PRT

<213> Homo sapiens

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<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1786

Ile Xaa Ile Lys Xaa Thr Xaa Thr Xaa Gly Xaa Lys Leu Xaa Leu His
1 5 10 15

Arg Gly Gly Gly Arg Ser Ser Thr Ser Gly Ser Pro Gly Ser Ala Gly
20 25 30

Ile Arg His Glu Arg Xaa Lys Arg Asp Asp Glu Gly Thr Ser Ser Phe
35 40 45

Gly Lys Arg Arg Asn Lys Thr His Xaa Leu Cys Arg Arg Cys Gly Ser
50 55 60

Lys Ala Tyr His Leu Gln Lys Ser Thr Cys Gly Lys Cys Gly Tyr Pro
65 70 75 80

Ala Lys Arg Lys Arg Lys Tyr Asn Trp Ser Ala Lys Ala Lys Arg Arg
85 90 95

Asn Thr Thr Gly Thr Gly Arg Met Arg His Leu Lys Ile Val Tyr Arg
100 105 110

Arg Phe Arg His Gly Phe Arg Glu Gly Thr Thr Pro Lys Pro Lys Arg
115 120 125

Ala Ala Val Ala Ala Ser Ser Ser Ser
130 135

<210> 1787

<211> 128

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1787

Leu Xaa Leu Thr Lys Gly Xaa Lys Ser Trp Gly Ser Thr Ala Val Thr
1 5 10 15
Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
20 25 30
Gly Arg Gly Asp Met Ala Lys Arg Thr Lys Lys Val Gly Ile Val Gly
35 40 45
Lys Tyr Gly Thr Arg Tyr Gly Ala Ser Leu Arg Lys Met Val Lys Lys
50 55 60
Ile Glu Ile Ser Gln His Ala Lys Tyr Thr Cys Ser Phe Cys Gly Lys
65 70 75 80
Thr Lys Met Lys Arg Arg Ala Val Gly Ile Trp His Cys Gly Ser Cys
85 90 95
Met Lys Thr Val Ala Gly Gly Ala Trp Thr Tyr Asn Thr Thr Ser Ala
100 105 110
Val Thr Val Lys Ser Ala Ile Arg Arg Leu Lys Glu Leu Lys Asp Gln
115 120 125

<210> 1788

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1788

Arg Gly Asp Met Ala Lys Arg Thr Lys Lys Val Gly Ile Val Gly Lys
1 5 10 15
Tyr Gly Thr Arg Tyr Gly Ala Ser Leu Arg Lys Met Val Lys Lys Ile
20 25 30
Glu Ile Ser Gln His Ala Lys Tyr Thr Cys Ser Phe Cys Gly Lys Thr
35 40 45
Lys Met Lys Arg Arg Ala Val Gly Ile Trp His Cys Gly Ser Cys Met
50 55 60
Lys Thr Val Ala Gly Gly Ala Trp Thr Tyr Asn Thr Thr Ser Ala Val
65 70 75 80
Thr Val Lys Ser Ala Ile Arg Arg Leu Lys Glu Leu Lys Asp Gln

85

90

95

<210> 1789

<211> 113

<212> PRT

<213> Homo sapiens

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<222> (72)

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1789

Gln Ser Leu Gly Arg Gly Asp Met Ala Lys Arg Thr Lys Lys Val Gly
1 5 10 15

Ile Val Gly Lys Tyr Gly Thr Arg Tyr Gly Ala Ser Leu Arg Lys Met
20 25 30

Val Lys Lys Ile Glu Ile Ser Gln His Ala Lys Tyr Thr Cys Ser Phe
35 40 45

Cys Gly Lys Thr Lys Met Lys Arg Arg Ala Val Gly Ile Trp His Cys
50 55 60

Gly Ser Cys Met Lys Thr Val Xaa Gly Gly Xaa Trp Thr Tyr Asn Thr
65 70 75 80
Thr Ser Ala Val Thr Val Lys Val Arg His Gln Lys Xaa Glu Gly Val
85 90 95
Glu Arg Pro Leu Asp Val Pro Xaa Xaa Phe Gly Thr Ser Leu Xaa Tyr
100 105 110

Asn

<210> 1790
<211> 24
<212> PRT
<213> Homo sapiens

<400> 1790
Ile Pro Cys Leu Lys Pro Lys Asn Phe Gly Ile Gly Gln Asp Ile Gln
1 5 10 15

Pro Lys Arg Asp Ser Pro Ala Leu
20

<210> 1791
<211> 70
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1791

Arg Arg Cys Ala Leu Arg Ala Val Asp Phe Ala Glu Arg Asn Gly Tyr
1 5 10 15

Ile Lys Gly Ile Val Lys Asp Ile Ile His Asp Pro Gly Arg Gly Xaa
20 25 30

Pro Leu Ala Lys Val Val Phe Arg Asp Pro Xaa Arg Leu Arg Ser Xaa
35 40 45

Xaa Glu Leu Phe Ile Ala Ala Glu Gly Ile His Thr Gly Gln Phe Val
50 55 60

Tyr Cys Arg Lys Lys Ala
65 70

<210> 1792

<211> 110

<212> PRT

<213> Homo sapiens

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<222> (4)

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<400> 1792
Gly Arg Val Xaa Arg Pro Thr Arg Pro Xaa Glu Xaa Arg Gly Gly Gly
1 5 10 15

Gly Leu Gly Ala Phe Lys Ile Gln Leu His Xaa Xaa Ala Thr Gly Met
20 25 30

Ala Glu Glu Gly Ile Ala Ala Gly Gly Val Met Asp Val Asn Thr Ala
35 40 45

Leu Gln Glu Val Leu Lys Thr Ala Leu Xaa His Asp Gly Leu Ala Arg

50 55 60
Gly Ile Arg Glu Ala Ala Lys Ala Leu Asp Lys Arg Gln Ala His Leu
65 70 75 80
Cys Xaa Leu Ala Ser Asn Xaa Asp Glu Pro Met Tyr Xaa Lys Xaa Xaa
85 90 95
Glu Ala Leu Xaa Ala Glu His Gln Xaa Asn Leu Ile Lys Gly
100 105 110

<210> 1793

<211> 92

<212> PRT

<213> Homo sapiens

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<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1793

Leu Val Pro Asn Ser Ala Arg Ala Ala Ile Met Gly Arg Met His Ala
1 5 10 15
Pro Gly Lys Gly Leu Ser Gln Ser Ala Leu Pro Tyr Arg Arg Ser Val
20 25 30
Pro Thr Trp Leu Lys Leu Thr Ser Asp Xaa Xaa Lys Glu Gln Ile Tyr
35 40 45
Lys Leu Ala Lys Lys Gly Leu Thr Pro Ser Gln Ile Gly Val Ile Leu
50 55 60
Arg Asp Ser His Gly Val Ala Gln Val Arg Phe Val Thr Gly Asn Lys
65 70 75 80
Ile Leu Arg Ile Leu Lys Ser Lys Gly Leu Ala Pro
85 90

<210> 1794

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1794

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Ile Ala Ile Val Asn Asp Thr Val Thr Ile Arg Thr Arg Lys Phe Met
 1             5             10             15

Thr Asn Arg Leu Leu Gln Arg Lys Gln Met Val Ile Asp Val Leu His
      20             25             30

Pro Gly Lys Ala Thr Val Pro Lys Thr Glu Ile Arg Glu Lys Leu Ala
      35             40             45

Lys Met Tyr Lys Thr Thr Pro Asp Val Ile Phe Val Phe Gly Phe Arg
      50             55             60

Thr His Phe Gly Gly Gly Lys Thr Thr Gly Phe Gly Met Ile Tyr Asp
      65             70             75             80

Ser Leu Asp Tyr Ala Lys Lys Asn Glu Pro Lys His Arg Leu Ala Arg
      85             90             95

His Gly Leu Tyr Glu Lys Lys Lys Thr
      100             105

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<210> 1795

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1795

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Val Asp Pro Arg Val Arg Tyr Asp Thr Lys Gly Arg Phe Ala Val His
 1             5             10             15

Arg Ile Thr Pro Glu Glu Ala Lys Tyr Lys Leu Cys Lys Val Arg Lys
      20             25             30

Ile Phe Val Gly Thr Lys Gly Ile Pro His Leu Val Thr His Asp Ala
      35             40             45

Arg Thr Ile Arg Tyr Pro Asp Pro Leu Ile Lys Val Asn Asp Thr Ile
      50             55             60

Gln Ile Asp Leu Glu Thr Gly Lys Ile Thr Asp Phe Ile Lys Phe Asp
      65             70             75             80

Thr Gly Asn Leu Cys Met Val Thr Gly Gly Ala Asn
      85             90

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<210> 1797
<211> 106
<212> PRT
<213> Homo sapiens

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<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1797

Pro Arg Ala Gly Gly Cys Gly Gly Ser Gly Arg Val Thr Ala Cys Leu
1 5 10 15

Cys Ala Cys Ala Thr Leu Val Trp Pro Pro Arg Phe Gln Glu Val Leu
20 25 30

Leu Val Leu Ser Gly Leu Val His Ala Arg Gly Cys Thr Tyr Xaa Gln
35 40 45

Leu Trp Ser Arg Ser His Pro Phe Cys Cys Xaa Arg Gly Pro Leu Ala
50 55 60

Met Ala Gly Ile Leu Phe Glu Asp Ile Phe Asp Val Lys Asp Ile Xaa
65 70 75 80

Pro Glu Gly Lys Lys Phe Xaa Arg Val Ser Arg Xaa His Cys Glu Ser
85 90 95

Glu Xaa Xaa Arg Trp Xaa Xaa Thr Lys Xaa
100 105

<210> 1798

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (13)

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<221> SITE

<222> (14)

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<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1798

Lys	Xaa	Xaa	Glu	Pro	Xaa	Xaa	Arg	Ile	Glu	Arg	Ala	Xaa	Xaa	Xaa	Xaa
1				5					10					15	

Leu	Lys	Lys	Ser	Gly	Lys	Leu	Lys	Val	Pro	Glu	Trp	Val	Asp	Thr	Val
			20					25					30		

Lys	Leu	Ala	Lys	His	Lys	Glu	Leu	Ala	Pro	Tyr	Asp	Glu	Asn	Trp	Phe
		35					40					45			

Tyr	Thr	Arg	Ala	Ala	Ser	Thr	Ala	Arg	His	Leu	Tyr	Leu	Arg	Gly	Gly
	50					55					60				

Ala	Gly	Val	Gly	Ser	Met	Thr	Lys	Ile	Tyr	Gly	Gly	Arg	Gln	Arg	Asn
65					70					75					80

Gly	Val	Met	Pro	Ser	His	Phe	Ser	Arg	Gly	Ser	Lys	Ser	Val	Ala	Arg
				85					90					95	

Arg	Val	Leu	Gln	Ala	Leu	Glu	Gly	Leu	Lys	Met	Val	Glu	Lys	Asp	Gln
		100						105					110		

Asp	Gly	Gly	Arg	Lys	Leu	Thr	Pro	Gln	Gly	Gln	Arg	Asp	Leu	Asp	Arg
	115						120					125			

Ile	Ala	Gly	Gln	Val	Ala	Ala	Ser	Asn	Lys	Lys	His
130							135				140

<210> 1799

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1799

Val Asp Pro Arg Val Arg Lys Thr Val Xaa Glu Leu Asp Lys Gly Met
1 5 10 15

Gln Glu Arg Thr Gly Ala Ala Thr Ala Arg Arg Glu Ser Leu Pro Gln
20 25 30

Ala Asn Asn Pro Glu Gln Leu Cys Lys Gln Arg Cys Ile Asn Glu Ala
35 40 45

Ser Trp Thr Met Lys Leu Val Leu Ser Cys Val Pro Glu Pro Thr Val
50 55 60

Val Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val Leu Ala Leu
65 70 75 80

Leu Ser Ser Ser Ser Ala Arg Glu Leu Arg Gly Ala Cys Leu Pro Asn
85 90 95

Gln Cys Ala Val Pro Ala Lys Asp Arg Val Glu Leu Arg Leu Thr Pro
100 105 110

Met Phe Thr Pro Lys Asp Cys Lys Asn Arg Gly Cys Cys Xaa
115 120 125

<210> 1800

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

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<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1800

Gly Tyr Leu His Ser Leu Asn Ile Val Tyr Arg Asp Leu Lys Pro Glu
1 5 10 15

Asn Ile Leu Leu Asp Ser Gln Gly His Ile Val Leu Thr Asp Phe Gly
20 25 30

Leu Cys Lys Glu Asn Ile Glu His Asn Ser Thr Thr Ser Thr Phe Cys
35 40 45

Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu His Lys Gln Pro Tyr
50 55 60

Asp Arg Thr Val Asp Trp Trp Cys Leu Gly Ala Phe Leu Tyr Glu Met
65 70 75 80

Leu Tyr Gly Leu Pro Pro Phe Tyr Ser Arg Asn Thr Ala Glu Met Tyr
85 90 95

Asp Asn Ile Leu Asn Lys Pro Leu Gln Leu Lys Pro Asn Ile Thr Asn
100 105 110

Ser Ala Arg His Leu Leu Glu Gly Leu Leu Xaa Lys Asp Xaa Thr Lys
115 120 125

Arg Leu Gly Gly Xaa Gly Asp Phe Met Glu Ile Lys
130 135 140

<210> 1801

<211> 92

<212> PRT

<213> Homo sapiens

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<222> (77)

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<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1801

Ala Thr Met Pro Gln Tyr Gln Thr Trp Glu Glu Phe Ser Arg Ala Ala
1 5 10 15

Glu Lys Leu Tyr Leu Ala Asp Pro Met Lys Ala Arg Val Val Leu Lys
20 25 30

Tyr Arg His Ser Asp Gly Asn Leu Cys Val Lys Val Thr Asp Asp Leu
35 40 45

Val Cys Leu Val Tyr Lys Thr Asp Gln Ala Gln Asp Val Lys Lys Ile
50 55 60

Glu Lys Phe His Ser Gln Leu Met Arg Leu Ile Val Xaa Gln Gly Ala
65 70 75 80

Xaa Asn Leu Pro Trp Glu Leu Ser Glu Trp Phe Xaa
85 90

<210> 1802

<211> 176

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

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<400> 1802

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1

5

10

15

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Ile Arg Xaa Arg Xaa Val Ser Gln Lys Thr Val Ile Ile Lys Glu Glu
      20              25              30
Glu Glu Asp Thr Ala Glu Lys Pro Gly Lys Glu Glu Asp Val Val Thr
      35              40              45
Pro Lys Pro Xaa Lys Arg Lys Arg Asp Gln Ala Glu Glu Glu Pro Asn
      50              55              60
Arg Ile Pro Ser Arg Xaa Leu Arg Arg Thr Lys Leu Asn Gln Glu Ser
      65              70              75              80
Thr Ala Pro Lys Val Leu Phe Thr Gly Val Val Asp Ala Arg Gly Xaa
      85              90              95
Arg Ala Val Leu Ala Trp Gly Glu Ile Trp Leu Val His Gly Gln Ser
      100             105             110
Phe Pro Xaa Val His Gly Ser His Pro Pro Asp Ile Gln Phe Leu Cys
      115             120             125
Gly Pro Gly Ala Gly Xaa Ser Pro Phe Cys Ser Xaa Asp Gly Trp His
      130             135             140
His Ser Arg Gln Ala Gly Phe Leu Leu Thr Pro Asp Glu Tyr Val Val
      145             150             155             160
Asn Asp Xaa Ala Pro Xaa Glu Glu Phe Gly Phe Thr Phe Lys Thr His
      165             170             175

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<210> 1803

<211> 39

<212> PRT

<213> Homo sapiens

<400> 1803

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Gly Ser Leu Ala Val Thr Lys Asn Asp Gly His Tyr Arg Gly Asp Pro
  1              5              10              15
Asn Trp Phe Met Lys Tyr Val Ala Pro Arg Glu Leu Gly Ser Pro His
      20              25              30
Gly Val Gly Gly Gly Leu Phe
      35

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<210> 1804

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1804

Gly Ser Leu Leu Ser Pro Asp Met Ala Asn Lys Gly Pro Ser Tyr Gly
1 5 10 15

Met Ser Arg Glu Val Gln Ser Lys Ile Glu Lys Lys Tyr Asp Glu Glu
20 25 30

Leu Gly Gly Ala Ala Gly Gly Val Gly Pro
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<210> 1805

<211> 165

<212> PRT

<213> Homo sapiens

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Phe Gly Thr Arg Leu Asp Gln Ile Arg Gln Arg Glu Ser Asp Ile Thr
1 5 10 15
Lys Glu Arg Ile Gln Lys Ile Leu Ala Thr Gly Ala Asn Val Ile Leu
20 25 30
Thr Thr Gly Gly Ile Asp Asp Met Cys Leu Lys Tyr Phe Val Glu Ala
35 40 45
Gly Ala Met Ala Val Arg Arg Val Leu Lys Arg Asp Leu Lys Arg Ile
50 55 60
Ala Lys Ala Ser Gly Ala Thr Ile Leu Ser Thr Leu Ala Asn Leu Glu
65 70 75 80
Gly Glu Glu Thr Phe Glu Ala Ala Met Leu Gly Gln Ala Glu Glu Val
85 90 95
Val Gln Glu Arg Phe Cys Asp Asp Glu Leu Ile Leu Ile Xaa Ile Pro
100 105 110
Arg Xaa Asp Gly Xaa Ile Gly Phe Phe Arg Gly Ala Lys Phe Ser Arg
115 120 125
Xaa Xaa Gly Gly Gly Leu Xaa Lys Xaa Leu Phe Gly Xaa Xaa Phe Gly
130 135 140
Xaa Ile Gly Xaa Pro Gly Val Leu Lys Xaa Xaa Xaa Pro Lys Ile Xaa
145 150 155 160
Pro Gly Xaa Asp Leu
165

<210> 1806

<211> 91

<212> PRT

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Ile Ala Gly Lys Leu Gln Asp Gly Leu Leu Xaa Ile Thr Xaa Xaa Ser
1 5 10 15

Phe Xaa Ala Pro Trp Asn Ser Leu Ser Leu Ala Xaa Ala Gly Ala Ser
20 25 30

Pro Arg Pro Thr Leu Leu Ala Val Arg Asn Ala Gln Cys Phe Pro Val
35 40 45

Tyr Pro Ser Pro Val Lys Leu Gln Ser Gly Thr His Cys Leu Trp Thr
50 55 60

Asp Gln Leu Leu Gln Gly Ser Glu Lys Gly Phe Gln Phe Pro Xaa Thr
65 70 75 80

Leu Xaa Gly Leu Thr Ser Gly Ser Xaa Gly Leu
85 90

<210> 1807

<211> 123

<212> PRT

<213> Homo sapiens

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<400> 1807

Ala Arg Pro Ser Arg Arg Arg Arg Arg Arg Arg Arg Pro Leu Gly Leu
1 5 10 15

Ala Met Ser Ser Ser Pro Val Lys Arg Gln Arg Met Glu Ser Ala Leu
20 25 30

Asp Gln Leu Lys Gln Phe Thr Thr Val Val Ala Asp Thr Gly Asp Phe
35 40 45

His Ala Ile Asp Glu Tyr Lys Pro Gln Asp Ala Thr Thr Asn Pro Ser
50 55 60

Leu Ile Leu Ala Ala Ala Gln Met Pro Ala Tyr Gln Glu Leu Val Glu
65 70 75 80

Glu Ala Ile Ala Tyr Gly Arg Lys Leu Gly Gly Ser Gln Glu Asp Gln
85 90 95

Ile Lys Asn Ala Ile Xaa Lys Leu Phe Val Leu Phe Gly Ala Glu Ile
100 105 110

Leu Lys Lys Ile Pro Gly Arg Val Ser Thr Glu
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<210> 1808

<211> 131

<212> PRT

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<400> 1808

Arg Leu Arg Gly Gly Cys Ser Val Leu Ser Val Gln Ala Ala Ala Gly
1 5 10 15

Leu Ser Gln Arg Arg Pro Pro Phe Thr Leu Arg Ala Arg Ser Pro Ala
20 25 30

Val Leu Pro Phe Arg Cys Pro Pro Cys His His Asp Gly Thr Gly His
35 40 45

Leu Leu Arg Gln Arg Leu Leu Gly Arg Xaa Ile Ala Ala Ala Ile Ser
50 55 60

Lys Thr Ala Val Ala Pro Ile Glu Arg Val Lys Leu Leu Leu Gln Val
65 70 75 80

Gln His Ala Ser Lys Gln Ile Ala Ala Asp Lys Gln Tyr Lys Gly Ile
85 90 95

Val Asp Cys Ile Val Arg Ile Pro Arg Ser Arg Arg Val Ser Phe Trp
100 105 110

Arg Xaa Thr Leu Gln Arg His Arg Tyr Phe Pro Xaa Lys Pro Gln Phe
115 120 125

Ala Ser Arg
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<210> 1809

<211> 93

<212> PRT

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<400> 1809

Asp Trp Ser Lys Val Val Leu Ala Tyr Glu Pro Val Trp Ala Ile Gly
1 5 10 15

Thr Gly Lys Thr Ala Thr Pro Gln Gln Ala Gln Glu Val His Glu Lys
20 25 30

Leu Arg Gly Trp Leu Lys Ser Asn Val Ser Asp Ala Val Ala Xaa Ser
35 40 45

Thr Arg Ile Ile Tyr Gly Gly Ser Val Thr Gly Ala Thr Cys Lys Glu
50 55 60

Leu Ala Ser Gln Pro Asp Val Asp Gly Phe Leu Val Gly Gly Ala Ser
65 70 75 80

Leu Lys Pro Glu Phe Val Asp Ile Ile Asn Ala Lys Gln
85 90

<210> 1810

<211> 150

<212> PRT

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<400> 1810

Ile Arg His Glu Gly Arg Gly Ile Xaa Ile Glu Arg Val Val Ser Ser
1 5 10 15

Glu Gly Gly Arg Pro Ser Val Asp Leu Ser Phe Gln Pro Ser Lys Pro
20 25 30

Leu Ser Lys Ser Ser Ser Ser Pro Glu Leu Gln Thr Leu Gln Asp Ile
35 40 45

Leu Gly Asp Pro Gly Asp Lys Ala Asp Val Gly Arg Xaa Ser Pro Xaa
50 55 60

Val Lys Ala Arg Ser Gln Ser Gly Xaa Leu Asp Gly Glu Ser Xaa Ala
65 70 75 80

Trp Ser Val Ser Gly Glu Asp Ser Xaa Xaa Gln Pro Glu Gly Pro Leu
85 90 95

Thr Ser Arg Xaa Pro Arg Phe Ala Gln Val Xaa Ser Gly Pro Val Gly
100 105 110

Tyr Asn Ile Xaa Xaa Xaa Xaa Pro Ser Arg Xaa Gly Lys Xaa Leu Glu
115 120 125

Arg Asp Ala Leu Arg Ala Glu His Ser Xaa Ile Gln Arg Ser Ser Arg
130 135 140

Ile Thr Xaa Phe Val Ser
145 150

<210> 1811

<211> 189

<212> PRT

<213> Homo sapiens

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<400> 1811

Gly Arg Xaa Gln Pro Ser Leu Lys Gly Thr Lys Ala Gly Ala Pro Pro
1 5 10 15

Arg Cys Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe
20 25 30

Gly Thr Ser Glu Asp Glu Ile Asn Arg Arg Thr Ala Ala Glu Asn Glu
35 40 45

Phe Val Val Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Ser Lys Val
50 55 60

Glu Leu Glu Ala Lys Val Asp Ala Leu Asn Asp Glu Ile Asn Phe Leu
65 70 75 80

Arg Thr Leu Asn Glu Thr Glu Leu Thr Glu Leu Gln Ser Gln Ile Ser
85 90 95

Asp Thr Ser Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp Leu
100 105 110

Asp Gly Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Met Ala Lys
115 120 125.

Cys Ser Arg Ala Glu Ala Glu Ala Trp Tyr Gln Thr Lys Phe Glu Thr
130 135 140

Leu Gln Ala Gln Ala Gly Lys His Gly Asp Asp Leu Arg Asn Thr Arg
145 150 155 160

Asn Xaa Ile Ser Glu Met Asn Arg Ala Xaa Gln Arg Leu Gln Ala Glu
165 170 175

Ile Xaa Asn Ile Lys Asn Gln Arg Ala Lys Leu Glu Ala
180 185

<210> 1812

<211> 42

<212> PRT

<213> Homo sapiens

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<400> 1812

Leu	Leu	Ala	Ser	Leu	Ala	Asn	Leu	Ala	Leu	Pro	Xaa	Xaa	Ile	Asn	Leu
1				5					10					15	

Leu	Gly	Glu	Leu	Ser	Val	Ala	Ser	Asn	Xaa	Val	Leu	Leu	Ile	Lys	Tyr
			20					25					30		

His	Ser	Pro	Thr	Tyr	Arg	Asn	Ser	Thr	Tyr
			35					40	

<210> 1813

<211> 121

<212> PRT

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<400> 1813
Trp Pro Pro Val Leu Ala Phe Leu Gly Cys Val Trp Ser Leu Gly Pro
1 5 10 15
Cys Leu Trp Gly Lys Ser Asn Arg Thr Leu Ala Leu Pro Lys Met Lys
20 25 30
Gly Glu Glu Met Gly Leu Leu Phe Leu Ser Pro Glu Trp Glu Arg Ser
35 40 45
Ser Gly Gly Trp Ser Phe Ser Thr Glu Glu Gly Ser Leu Lys Ala Leu
50 55 60
Leu Thr Ser Cys Cys Thr Phe Cys Ile Ser Leu His Ala His Cys Leu
65 70 75 80
Phe Leu Phe Leu Ala Leu Ala Pro Val Pro Val Pro Ala Pro Ala Asn
85 90 95
Ala Lys Met Gln Met His Xaa Leu Ala Xaa Arg Val Xaa Ala Gly Leu
100 105 110
Ser Cys Glu Xaa Gly Gly Trp Ala Xaa
115 120

<210> 1814
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<400> 1814

Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Glu
1			5				10				15		

Xaa	Xaa	Pro	Xaa	Ser	Ala	Pro	His	Xaa	Ser	Ser	Pro
		20					25				

<210> 1815

<211> 79

<212> PRT

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<400> 1815

Ile	Arg	Xaa	Ser	Gly	Asn	Ala	Asn	Xaa	Glu	Asn	Gly	Glu	Gln	Glu	Ala
1				5					10				15		

Asp Asn Glu Val Asp Glu Xaa Glu Glu Glu Gly Gly Glu Glu Glu Glu

20 25 30
Glu Glu Glu Glu Gly Asp Gly Glu Glu Glu Asp Gly Asp Glu Asp Glu
35 40 45
Glu Ala Glu Xaa Ser Tyr Gly Pro Ser Gly Gln Leu Lys Met Met Arg
50 55 60
Met Thr Met Ser Ile Pro Arg Ser Arg Arg Pro Thr Arg Met Thr
65 70 75

<210> 1816
<211> 21
<212> PRT
<213> Homo sapiens

<400> 1816
Lys Leu Lys Pro Gly Ala Ile Asp Ile Val Pro Gln Gly Lys Met Lys
1 5 10 15
Asn Tyr Asn Gln Ala
20

<210> 1817
<211> 76
<212> PRT
<213> Homo sapiens

<400> 1817
Gly Lys Arg Gly Glu Ala Phe Pro Arg Ser Ser Gln Arg Trp Arg Phe
1 5 10 15
Gly Arg Gly Phe Gly Gly Cys Ser Arg Phe Ala Gly Thr Leu Val Ile
20 25 30
Ser Leu Ala Pro Leu Leu Pro Ala His Ser Pro Gly Leu Ala Gln Tyr
35 40 45
Ile Gly Thr Cys Gly Phe Tyr Phe Val Phe Asp Val Pro Asp Arg Asn
50 55 60
Arg Ala Arg Gly Thr Ala Lys Thr Thr Val Gly Ser
65 70 75

<210> 1818

<211> 76
<212> PRT
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<400> 1818
His Xaa Ile Xaa Xaa Tyr Xaa Xaa Pro Xaa Pro Lys Arg Xaa Xaa Asn
1 5 10 15
Thr Ala Cys Thr Ser Gln Arg Lys Ile Gln Asn Thr Thr Gln Xaa Ser
20 25 30
Xaa Thr Glu Glu Xaa Phe Pro Pro Thr Xaa Thr Pro Gly Leu His Gln
35 40 45
Pro Asn Xaa Thr Xaa Val Gly Phe Gly Phe Asp Ser Gln Xaa Val Leu
50 55 60

Cys Trp Leu Gln Arg Ile Asp Xaa Leu Asp Gly Xaa
65 70 75

<210> 1819

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1819

Arg Met Phe Leu Leu Pro Lys Asn Val Lys Pro Thr Met Glu Asp Trp
1 5 10 15

Gly Arg Gly Gly Met Lys Tyr Lys Ile Met Ile Ile Tyr Thr Glu Leu
20 25 30

Gly Phe Phe Met Phe Cys Lys Lys Val Phe Ile Ser
35 40

<210> 1820

<211> 36

<212> PRT

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<400> 1820

Xaa Ser Gly Ile Gly Arg Gly Ala Leu Arg Leu Lys Ser Phe Thr Ser
1 5 10 15

Glu Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa
20 25 30

Lys Lys Xaa Xaa
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<210> 1821

<211> 32

<212> PRT

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<400> 1821

Xaa Asn Thr Leu Xaa Gly Val Lys Met Lys Ile Xaa Thr Gln Asp Met
1 5 10 15

Asn Ile Phe Ser Cys Asn Leu Thr Ile Lys Ala Phe Ser His Thr Xaa
20 25 30

<210> 1822

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<400> 1822
Gly Xaa Gly Xaa Asn Pro Ala Ser Thr Lys Asn Thr Lys Lys Lys Lys
1 5 10 15
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys
20 25 30
Lys Lys Xaa Lys Xaa Xaa Xaa
35

<210> 1823
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1823

Xaa	Asn	Xaa	Ser	Ile	Thr	His	Cys	Thr	His	Gln	Gly	Lys	Pro	Gly	Tyr
1				5					10					15	

Ala	Xaa	Gln	Val	Thr	Gly	Xaa	Gly	Asn	Ser	Arg	Val	Asp	Pro	Arg	Val
		20					25						30		

Arg	Pro	Arg	Val	Arg	Pro	Arg	Val	Arg	Pro	Arg	Val	Arg	Ser	Cys	His
		35				40						45			

Asp	Leu	Tyr	Leu	Met	Val	Phe	Ile	Ser	Arg	Val	His	Leu	Arg	Glu	Ala
	50					55					60				

Thr	Leu	Ser	Ser	Arg	Ala	Gln	Met	Glu	Arg	Arg	Phe	Cys	Ala	Val	Gly
65					70					75				80	

Ser	Xaa	Leu	Pro	Arg	Ser	Gly	Val	Arg	Glu	Glu	Asn	Tyr	Pro	Ala	Gly
				85					90					95	

Phe	Asn	Leu	Phe	His	Pro	Val	Cys	Ser	Pro	Gly	Val	Ala	Ser	Ala	Leu
		100						105						110	

Arg	Thr	Ile	Arg	Phe	Thr
		115			

<210> 1824
<211> 95
<212> PRT
<213> Homo sapiens

<220>
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<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1824
Asp Gln Gly Cys Ser Val Arg Ala Pro Pro Arg His Asp Phe Leu Gln
1 5 10 15
Leu Ser Pro Val Val Gly His Val Val Leu Arg Arg Pro Gly Arg Arg
20 25 30
Leu Arg Gly Val Leu Gly Arg Gly Ser Pro Phe Ala Arg Pro Ala Phe
35 40 45
Thr Gly Ala Pro Ala Ala Ala Tyr Pro Xaa Pro Pro Pro Ala Leu
50 55 60
Cys Pro Arg Pro Pro Arg Gly Pro Thr Xaa Val Xaa Lys Xaa Gly Val
65 70 75 80

Leu Asn Arg Xaa Xaa Thr Gly Cys Trp Ala Gly Asn Glu Glu Ala
85 90 95

<210> 1825

<211> 17

<212> PRT

<213> Homo sapiens

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<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1825

Xaa Tyr Ser Glu Ser Xaa Tyr Asn Ser Leu Ala Val Val Leu Gln Pro
1 5 10 15

Arg

<210> 1826

<211> 69

<212> PRT

<213> Homo sapiens

<220>

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<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1826

Thr Cys Arg Ala Leu Leu Arg Arg Xaa Ala Val Phe Gln Pro Ser Pro
1 5 10 15

Asn Ala Phe Phe Arg Cys Val Ser Glu Asp Leu Gly Phe Ala Val Leu
20 25 30

Xaa Thr Gln Leu Met Leu Xaa Xaa Leu Arg Phe Thr Gly Phe Ile Thr
35 40 45

Val Gly Ile Thr Pro Lys Ala Ser Pro Leu His Val Thr Glu His Val
50 55 60

Leu Asn Gln Arg Ser
65

<210> 1827

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (110)
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1827

Gly Glu Ala Phe Gly Ser Thr Leu Trp Asp Gly Pro Trp Arg Ala Leu
1 5 10 15

Pro Xaa Xaa Xaa Gly Trp Arg Arg Lys Arg Pro Ile Trp Gly Trp Gly
20 25 30

Pro Pro Ser Pro Trp Asn Xaa Ser Gly Ser Asp Ala Trp Cys Ala Trp
35 40 45

Ser Thr Arg Glu Leu Val Arg Asp Val Ala Lys Met Leu Pro Thr Leu
50 55 60

Gly Gly Glu Arg Lys Gly Ser Pro Arg Ile Leu Pro Arg Xaa Pro Pro
65 70 75 80

Arg Lys Leu Gly Xaa Leu Phe Leu Pro Gly Ala Gln Gly Thr His Tyr
85 90 95

Leu Xaa Pro Pro Xaa Val Trp Ala Gln Thr Arg Phe Pro Xaa Thr Xaa
100 105 110

Gln Xaa Leu Leu Ala Ser Pro Phe Pro Xaa Xaa Lys Lys Lys Gln Lys
115 120 125

Gly Gly Gly Lys Lys Arg Gly Xaa Leu Gly Gly Pro Phe Lys Gly Pro
130 135 140

Pro Xaa Xaa Arg Phe Pro Phe Leu Lys Ile Gly Lys Asn Pro Xaa Gly
145 150 155 160

Val Pro Ser Ser Pro Pro Phe
165

<210> 1828

<211> 23

<212> PRT

<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1828
Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg
1 5 10 15

Arg Xaa Val Xaa Asn Xaa Xaa
20

<210> 1829
<211> 35
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1829

Xaa	Arg	Xaa	Lys	His	Met	Xaa	Phe	Xaa	Phe	Xaa	Leu	Thr	Leu	Xaa	Leu
1					5					10					15

Pro	Thr	Ser	Xaa	Pro	Glu	Gln	His	Xaa	Ser	Cys	Phe	Asp	Thr	His	Leu
			20						25					30	

His	Leu	Tyr
		35

<210> 1830

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1830

Pro Arg Ser Pro Arg Val Leu His His Val Ser Val Leu Trp Gly Gly
1 5 10 15

Ser Lys Gly Pro Trp Ser Trp Pro Arg Pro Arg His Arg Glu Arg Leu
20 25 30

Asp Phe Leu Ser Leu Cys Ala Glu Xaa Leu Arg Trp Arg Pro Leu Ser
35 40 45

Leu Thr Gln Gln Leu Lys His Thr Ile Ser Gly Ser Xaa Trp Leu Pro
50 55 60

His Pro Leu Xaa Cys Pro Leu Xaa Ser Xaa
65 70

<210> 1831

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1831

Gly Thr Ser Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser
1 5 10 15

Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Leu Arg Asp Xaa
20 25 30

Gly Asn Xaa Lys Tyr Phe Arg Ala Arg Met Xaa
35 40

<210> 1832

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1832

Glu Asn Leu Phe Ile Tyr Cys Leu Leu Val Met Gly Gly Glu Gly Arg
1 5 10 15

Phe Lys Gly Pro Gly Thr Trp Glu Pro Ser His Arg Asp Gln Arg Gly
20 25 30

Leu Ser Leu Asn Thr Thr Gly Val Tyr Ser Gly Ser Ser Thr Gln Leu
35 40 45

Leu Gly Ser Cys Pro Asn Gly Pro Pro Leu Gln His Pro Ser Trp Arg
50 55 60

Arg Gly
65

<210> 1833

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1833

Ser Phe Pro Arg Thr Thr Gly Val Ser Ser Leu Ile Val Cys Tyr Ala
1 5 10 15

Met Xaa His Leu Lys Gln Tyr Phe Ile Leu Leu Phe Phe Xaa Lys Thr
20 25 30

Gln Asn Thr Cys Asn Xaa Lys Pro
35 40

<210> 1834

<211> 71

<212> PRT

<213> Homo sapiens

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1834

Ala Xaa Arg Val Gly Gly Thr His Ala Ser Val Asp Pro Arg Val Arg
1 5 10 15

Asp Leu Gly Asn Tyr Pro Asn Lys Leu Xaa Ser Pro Leu Ser Cys Gln
20 25 30

Tyr Trp Asn Cys Ser Ser Gln Val Phe Ala Xaa Ile Ser His Pro Glu
35 40 45

Arg Lys Asn Asp Arg Glu Asn Leu Cys Ser Asp Thr Thr Asp Ser Tyr
50 55 60

Ile Val Glu Gln Tyr Leu Ser

65

70

<210> 1835

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1835

Ile Cys Pro Gln Asn Pro Leu Asn Pro Leu Gly Asn Leu Thr Gly Ser
1 5 10 15

Pro Lys Arg Asn Ser Ser Leu Asp Thr Arg Lys Lys Pro Trp Arg Glu
20 25 30

Ser Lys Lys Phe Asn Thr His Ser Arg Pro Lys Ser Xaa His Gln Leu
35 40 45

Arg Lys Arg Ser Ser Ser Thr Pro Thr Thr
50 55

<210> 1836

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1836

Val Cys Trp Pro Val Gly Phe Gly Thr Ser Phe Ser Glu Arg Arg Arg
1 5 10 15

Lys Leu Pro Trp Leu Glu Pro Cys Ser Ala Gly Lys Gly Val Trp Arg
20 25 30

Pro Leu Leu Gly Lys Trp Arg Thr Thr Ser Gly Ala Glu Glu Ala Cys
35 40 45

Xaa Arg Lys Val Ser Arg Ile His His Lys Arg Ala Thr Arg Ala Trp
50 55 60

Lys Lys Leu Lys Thr Cys Tyr Pro Pro Ser Leu Leu His Pro Gly Thr
65 70 75 80

<210> 1837

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1837

Gly Xaa Gly Arg Glu Arg Glu Arg Thr Ser Leu Val Phe Phe Phe Phe
1 5 10 15

Phe Phe Gly Xaa Lys Ile Xaa Phe
20

<210> 1838

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1838

His Glu Gly Glu Ile Ala Val Leu Ala Ser Gly Ala Arg Arg Leu Glu
1 5 10 15

Leu Leu Arg Pro Arg Gly Asn Arg Ser Gly Thr Pro Xaa Gly Gly Glu
20 25 30

Ala Ser Arg Ser Leu Arg Asp Thr Lys Ala Pro Ala Thr Arg Trp Leu
35 40 45

Gln Leu Gly Arg Gly Arg Gln Asp Asp Gly Ser Gly Phe Gly Ser Val
50 55 60

Thr Arg Arg Pro Glu Gly Ala Gly Pro Ala Xaa Ser Ala Arg Ala Pro
65 70 75 80

Ala Leu Ala Asp Arg Asp Leu Arg Pro Xaa Met Gly Lys Lys Ala Glu
85 90 95

Ala Arg Ala Pro Ile Leu Phe Gly Glu Lys Gln Ala Ser Leu Xaa Ser
100 105 110

Phe Gly Ile Arg Lys Phe Xaa Thr Trp Xaa Lys Trp Cys Val Val
115 120 125

<210> 1839

<211> 57

<212> PRT

<213> Homo sapiens

<220>

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<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1839

Ala	Arg	Ala	Cys	Ser	Ser	His	Trp	Cys	Asp	Ser	Ser	Ile	Pro	Phe	Ala
1				5					10					15	

Arg	Asn	Gly	Pro	Gln	Leu	Leu	Leu	Arg	His	Trp	Trp	Leu	Leu	His	Val
			20					25					30		

Arg	Arg	Leu	Leu	Gln	Xaa	Gln	Arg	Val	Gln	Met	Xaa	Leu	Leu	Gln	Xaa
		35					40					45			

Glu	Leu	Leu	Phe	Leu	Xaa	Pro	Arg	Gly
	50						55	

<210> 1840

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1840

Gln Gln His Arg Arg Gly Ser Arg Glu Xaa Pro Ala Leu Leu Ala Pro
1 5 10 15

Arg Xaa Gly Ile Ser Phe Thr Lys Pro Thr Arg Leu Trp Xaa Pro Arg
20 25 30

Xaa

<210> 1841

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1841

Ala Arg Gly Gln Ser Ala Trp Xaa Thr Ala Leu Xaa Pro Trp Tyr Cys
1 5 10 15

Met His Ala Met Leu Ala Ala Pro Phe Pro Ser Trp Ala Pro Arg Val
20 25 30

Ser Pro Asp Pro Gly Ser Gln Val Cys Ser His Leu His Leu Pro His
35 40 45

Ser Pro Pro Leu Pro Ser Ser Arg His Leu His Ala His Leu Val Leu
50 55 60

Ser His Arg Pro Gln Lys Gly Gly His Glu Gly Thr Ser Leu Ala Glu
65 70 75 80

Leu Gly Gly Ala Gly
85

<210> 1842

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1842

His Ala Thr Cys Asn Ser Leu His Asp Pro Phe Cys Ile Phe Lys Pro
1 5 10 15

Lys Leu Ser Ala Ser Val Ala Phe Gln Gly Asn Lys Glu Ser Asn Cys
20 25 30

Gly Leu Asp Phe Val Ser Phe Phe Gln Asn Leu Ser Phe Ile Gln Phe
35 40 45

Pro Ser Ile Ile Ile Tyr Phe Tyr Leu Glu Val Ser Lys Glu Val Phe
50 55 60

<210> 1843

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (56)

<223> xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1843

Ser Trp Cys Phe Ser Glu Ile Ile Tyr Ile Phe Xaa Ser Gln Gly Leu
1 5 10 15

Thr Val Ser Pro Arg Leu Glu Ala Glu Val Val Ala Arg Ala Glu Phe
20 25 30

Asp Ile Lys Leu Ile Asp Thr Val Asp Leu Glu Xaa Gly Ala Arg Tyr
35 40 45

Pro Ile Arg Pro Ile Ser Xaa Xaa Val Leu Gln Phe Thr Gly Pro Ser
50 55 60

Phe Leu Lys Arg Gly Xaa Leu Gly Lys
65 70

<210> 1844

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1844

Arg Gly Arg Gly Trp Arg Xaa Val Leu Leu Gly Trp Glu Gly Thr Ser
1 5 10 15

Pro Arg Thr Gln Xaa Gly Lys Gly Xaa Arg Pro Xaa Gly Glu Xaa Thr
20 25 30

Asp Met Ser Leu Glu Asp Pro Phe Phe Val Val Arg Gly Glu Val Gln
35 40 45

Lys Ala Val Asn Thr Gly Pro Arg Ala Val Pro Xaa Leu Val Arg Xaa
50 55 60

Pro Ala Arg Xaa Xaa Gly Val Arg Asn
65 70

<210> 1845

<211> 67

<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (8)
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<222> (22)
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<220>
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<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1845
Ala Glu Gly Gln Ser Asn Leu Xaa Met Ser Gly Trp Phe Trp Thr Ala
1 5 10 15
Thr Pro Ala Gly Xaa Xaa Pro Arg Ser Ser Cys Thr Thr Xaa Lys Val
20 25 30
Ala Ser Ser Pro Lys His Ser Phe Pro Leu Xaa Ser Pro Ser Asn Pro
35 40 45
Glu Ala Leu Trp Cys Ala Leu Cys Pro Met His Ser His Leu Ser Xaa
50 55 60
Pro Pro Gly
65

<210> 1846
<211> 45
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1846

Xaa	Val	Gln	Thr	Pro	Ser	Leu	Leu	Gly	Thr	Gly	Val	Arg	Gly	Arg	Leu
1				5				10					15		

Xaa	Phe	Val	Glu	Lys	Pro	Pro	Val	Lys	Ala	Ser	Gly	Gly	Ser	Pro	Cys
			20					25					30		

Cys	Ile	Val	Cys	Leu	Leu	Ser	Phe	Pro	Leu	Val	Arg	Arg
	35						40				45	

<210> 1847

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

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<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1847

Glu	Gln	Xaa	Lys	Glu	His	Thr	Arg	Ile	Cys	Ser	Lys	Ile	Xaa	Gly	Arg
1				5					10					15	

Phe	Xaa	Gly	Arg	Gly	Xaa	Xaa	Pro	Thr	Glu	Pro	Gly	Asp	Met	Leu	Xaa
			20					25					30		

Val	Gln	Asp	Lys	Asn	Xaa	Arg	Leu	Thr	Phe	Lys	Phe	Gly	His	Arg	Thr
		35					40					45			

Leu	Leu	Asn	Pro	Xaa	Gly	Asn	Leu	Thr	Gly	Lys	Pro	Lys	Glu	Glu	Gln
	50					55					60				

Val	Phe	Trp	Thr	Leu	Gly	Lys	Lys	Pro	Xaa	Xaa	Xaa	Glu
65						70					75	

<210> 1848

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1848

Ala Arg Ala His Thr His Pro Arg Thr Gly Phe Val Lys Lys Lys Lys

1

5

10

15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Xaa Gly Gly Ala Xaa

20

25

30

<210> 1849

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1849

Trp Pro Ala Val Thr Gly Phe Lys Thr Gly Leu Phe Leu Val Lys Met

1

5

10

15

Gly Glu Leu Leu Ser Cys Gln Lys Cys Xaa Arg Ser Thr Trp Lys Thr

20

25

30

Lys Ser Ser Gln Arg Glu Ser Lys Glu His Leu Ile Ser Leu Ile Ser

35

40

45

Thr Cys Ser Tyr Phe Ser Lys Val Asn Ser

50

55

<210> 1850

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1850

Ala Ile His Leu Pro Thr Pro Leu Phe Phe Lys Thr Ser Phe Asn Ser
1 5 10 15

Leu Asn Lys Ile Gly Phe Val Phe Asn Phe Tyr Ser Leu Phe Ile Glu
20 25 30

Ser Gln Leu Pro Leu Tyr Ile Ile Cys Tyr Trp Lys Arg Phe Leu Ser
35 40 45

Asn Leu Gln Ser Leu Ile Val Pro His Arg Val Gly Gln Trp Leu Leu
50 55 60

Glu Leu Glu Gly Pro
65

<210> 1851

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (111)

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<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (146)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (150)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (154)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1851
 Met Trp Lys Val Asp Trp Asp Pro Val Val Ser His Pro Lys Pro Ala
 1 5 10 15
 Phe Arg Glu Gly Leu Gln Thr Gln Asn Val Asn Pro Ala Ser Pro Leu
 20 25 30
 Ser Gln Asn Cys Gly Leu Val Pro Gly Arg Gly Gly Gly Trp Gly Gly
 35 40 45
 Ala Gly Gly Lys Phe Arg Phe Trp Arg Ala Pro Cys Gly Asp Ala Pro
 50 55 60
 Ser Cys Ala Leu Leu Phe Pro Arg Trp Ser Pro Arg Ser Pro Ser Gly
 65 70 75 80
 Ser Ala Cys Pro Ala Leu Lys Arg His Pro Pro Phe His Pro Val Ser
 85 90 95
 Gly Xaa Gly Cys Gly Ser Gly Arg His Ala Xaa Pro Xaa Cys Xaa Val
 100 105 110

Phe Glu Gln Ala Lys Ala Pro Thr Gly Xaa Gly Arg Ala Gly Val Lys
115 120 125

Thr Val Lys Trp Leu Xaa Leu Asn Ile Pro Leu Trp Arg Asn Phe Xaa
130 135 140

Lys Xaa Asn Ser Lys Xaa Ser Phe Trp Xaa Asn Glu Asn Gly Gln Val
145 150 155 160

Arg Leu Val Lys Asn Phe
165

<210> 1852

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1852

Asp Pro Arg Val Arg Gly Ala Arg Ser Val Val Leu Leu Leu Val Ala
1 5 10 15

Val Arg Leu His Thr Leu Leu Ser Cys Pro Leu Glu Gln Pro Ala Gly
20 25 30

Thr Glu Trp Ile Leu Glu Glu Gly Val Thr Thr Gly Pro Pro Arg Lys
35 40 45

Pro Arg Ala Asp Ile Tyr Asn Leu Arg Ser Pro Asp Glu Phe Ile Val
50 55 60

Gly Gln Asn Gln Ala Leu Ile Glu Pro Gly
65 70

<210> 1853

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1853

His Arg Gly Glu Cys Phe Ser Cys Val Ala Pro Arg Ala Gln Ser Ser
1 5 10 15

Cys His Arg Arg His Pro Gly Phe Gly Gly Ala Gly Leu Gln Ala Pro
20 25 30

Gly Arg Arg Thr Pro Arg Ala Thr Lys Ser Ser Leu Glu Xaa Xaa Ala
35 40 45

Ser Tyr Ala Gly Gly Arg Gly Gly Gly Pro Asp Phe Gly Ser Arg Gly
50 55 60

Leu Thr Gly Leu Val Arg Pro Val Trp Leu Leu Leu Trp Lys Gln Cys
65 70 75 80

Cys Xaa Leu Leu Glu Asp Lys Arg Glu Ser Lys Pro Leu Val Gly Glu
85 90 95

Ile Trp Leu Arg
100

<210> 1854

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1854

Arg Xaa Ala Gly Ala Gly Gly Pro Val Arg Gly Leu Leu Val Gly Leu
1 5 10 15

Val Arg Gln Gln Arg Leu Arg Leu Arg Ser Gly Ala Gln Gln Pro His
20 25 30

His Ala Ala Arg His Pro Asp Pro Gln Leu Cys Arg Arg Gly Arg Arg
35 40 45

Arg Leu Leu Pro Gln Ser Ala Ala Ala Ala Ala Gly Pro Gly Ala
50 55 60

Pro Arg Ala Ala Pro Ala Pro Pro Ser Ala Thr Leu Pro Ala Gly Ala
65 70 75 80

Ala Ala Pro Pro Ser Pro Pro Phe Ser Phe Xaa Leu Pro Arg Arg Pro
85 90 95

Cys Pro Xaa Arg Pro Cys Xaa Xaa Ala Ala Pro Lys Xaa Pro Gly Ile
100 105 110

Arg Cys Ser Glu Arg Glu Ser Asn Leu Xaa Arg Val Pro
115 120 125

<210> 1855

<211> 85

<212> PRT

<213> Homo sapiens

<220>

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<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1855

Val Gly Ser Ala Cys Leu Leu Asn Trp Tyr Gln Pro Leu Pro Leu Pro
1 5 10 15

Ser Lys Phe Leu Val Pro Pro Leu Arg Asn Ser Arg Ile Val Leu Gln
20 25 30

Ile Asp Asn Ala Arg Xaa Ala Ala Asp Glu Leu Pro Asn Gln Val Ser
35 40 45

Xaa Ser Xaa Leu Gly Ala Ala Glu Ala Arg Thr Gly Val Gly Val Gly
50 55 60

Gly Phe Arg Asn Xaa Pro Ser Pro Ser Leu Asp Gly Leu Lys Leu Asn
65 70 75 80

Pro Pro Met Asp Ser
85

<210> 1856

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1856
Tyr Gln Gln Ile Thr Ser Ser Ser Arg Leu Ser Ile Gln Leu Ile Leu
1 5 10 15
Ile Ser Xaa Asp Xaa Asn Val Thr Gln Xaa Leu Leu Ile Ala Pro Asn
20 25 30
Lys Xaa Val Ser Val Xaa Pro Leu Pro Ser Glu Leu
35 40

<210> 1857
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1857

Ser Thr His Ala Ser Gly Phe Ser Ala Pro Ser Arg Ile Ser Ala Trp
1 5 10 15

Phe Gly Pro Pro Ala Ser Xaa Pro Ala Ser Xaa Met Ser Ile Xaa Xaa
20 25 30

Thr Gln Lys Ser Tyr Lys Xaa Ser Xaa Ser Gly Pro Arg Gly Phe Ser
35 40 45

Ser Arg Ser Tyr Thr Ser Gly Xaa Gly Ser Arg Ile Ser Ser Ser Xaa
50 55 60

Phe Ser Arg Val Gly Ser Ser Asn Phe Arg Gly Gly
65 70 75

<210> 1858

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1858

Arg Leu Arg Thr Lys Thr Cys Thr Trp Ser Phe Pro Gly Ala Leu Cys
1 5 10 15

Val Val Glu Leu Arg Trp Asn Phe Gly Ala Leu Gly Cys Gln Arg Ala
20 25 30

Cys Leu Val Ala Thr Glu Thr Ser Pro Ala Arg Leu Arg Gly His Phe
35 40 45

Ile Thr Ile Gln Lys Cys Leu Pro Leu Lys Ala Ser Val Val Val Phe
50 55 60

Lys Pro Gln Lys Ser His Xaa Gln Asp His Xaa Thr Thr Thr Leu Thr
65 70 75 80

Ser Val Pro

<210> 1859

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1859

Lys	Ser	Ser	Pro	Gly	Lys	Met	Gly	Leu	Xaa	Glu	Xaa	Ala	Thr	Gly	Thr
1				5				10						15	

Ala	Ser	Cys	Arg	Trp	Ser	Trp	Pro	Xaa	Ser	His	Arg	Pro	Val	Tyr	Lys
			20				25						30		

Xaa	Cys	Ala	Ser	Trp	Thr	Leu	Xaa	Ser	Gly	Thr	Gly	Ser	Trp	Thr	Leu
		35					40						45		

Lys	Ser	Leu	Val	Pro	Pro	Ala	Arg	Xaa	Trp
		50					55		

<210> 1860

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1860

Gln Asp Gln Ser Cys Arg Lys Met Asp Ser Glu Val Gln Arg Asp Gly

1 5 10 15
Arg Ile Leu Asp Leu Ile Asp Asp Ala Trp Arg Glu Asp Lys Leu Pro
20 25 30
Tyr Glu Asp Val Ala Ile Pro Leu Asn Glu Leu Pro Xaa Pro Xaa Gln
35 40 45
Asp Asn Gly Gly Thr Thr Asp Leu Ser Lys Xaa Lys Lys
50 55 60

<210> 1861

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1861

Ser Arg Gly Ala Pro Phe Phe Lys Pro Val Arg Lys Ala Gln Tyr Ser
1 5 10 15

Gly Gly Ser Asp Pro Ile Phe Gln Val Arg Pro Ser Pro Leu Ser Leu
20 25 30

Thr Arg Lys Gly Asn Ser Leu Thr Pro Cys Ala Ser Gln Val Arg Gln
35 40 45

Cys Ser Pro Cys Phe Gly Ser His Thr Val Arg Ala Xaa Thr Asp Leu
50 55 60

Cys Pro Leu Ser Gly Thr Pro
65 70

<210> 1862

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1862

Thr Pro Thr Pro Phe Gly Ser Ala Arg Ala Pro Gln Ala Arg Pro Gly
1 5 10 15

Arg Arg Asp Gly Arg Met Ser Gly Gly Arg Arg Lys Glu Glu Pro Pro
20 25 30

Gln Pro Gln Leu Ala Asn Gly Ala Leu Lys Val Ser Val Trp Ser Lys
35 40 45

Val Leu Arg Thr Thr Arg Pro Gly Xaa Ile Arg
50 55

<210> 1863

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1863

Gln Leu Ser Thr Leu Ile Asn Trp Leu Gln Ser Thr Ser Pro Ala Ala
1 5 10 15

Gly Lys Lys Gly Gly Arg Ser Pro Gly Arg Phe Glu Ala Ala Ser Ser
20 25 30

Asn Leu Gln Phe Asn Met Lys Ile Thr Ser Glu Leu Val Lys Arg Gly
35 40 45

Leu Thr Pro Val Phe Arg Phe Thr Val Gln Cys Phe Thr Gln Pro Phe
50 55 60

Tyr Leu Thr Pro Lys Lys Lys Lys Lys Lys Asn Xaa Gly Gly Gly
65 70 75 80

Pro Gly Xaa

<210> 1864

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1864

Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg
1 5 10 15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu
20 25 30

Ser Lys Ile Glu Ser
35

<210> 1865

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1865

Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg
1 5 10 15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu
20 25 30

Ser Lys Ile Glu Ser Leu Val Gln Leu
35 40

<210> 1866

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1866

Asn Thr Glu Leu Thr Ile Asn Ser Pro Ile Ser Thr Ile Asn Gln Gln
1 5 10 15

Val Ile Ile Thr Leu Thr Val Asn Pro Thr Lys Lys Lys Lys Lys Xaa
20 25 30

Lys

<210> 1867

<211> 143

<212> PRT

<213> Homo sapiens

<400> 1867

Gly Ser Gly Gly Lys Met Glu Asp His Gln His Val Pro Ile Asp Ile
1 5 10 15

Gln Thr Ser Lys Leu Leu Asp Trp Leu Val Asp Arg Arg His Cys Ser
20 25 30

Leu Lys Trp Gln Ser Leu Val Leu Thr Ile Arg Glu Lys Ile Asn Ala
35 40 45

Ala Ile Gln Asp Met Pro Glu Ser Glu Glu Ile Ala Gln Leu Leu Ser
50 55 60

Gly Ser Tyr Ile His Tyr Phe His Cys Leu Arg Ile Leu Asp Leu Leu
65 70 75 80

Lys Gly Thr Glu Ala Ser Thr Lys Asn Ile Phe Gly Arg Tyr Ser Ser
85 90 95

Gln Arg Met Lys Asp Trp Gln Glu Ile Ile Ala Leu Tyr Glu Lys Asp
100 105 110

Asn Thr Tyr Leu Val Glu Leu Ser Ser Leu Leu Val Arg Asn Val Asn
115 120 125

Tyr Glu Ile Pro Ser Leu Lys Lys Gln Ile Ala Lys Cys Gln Gln
130 135 140

<210> 1868

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1868

Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg
1 5 10 15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu
20 25 30

Ser Lys Ile Val Ser
35

<210> 1869

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1869

Ile Leu Gln Ala Val Arg Thr Glu Trp Tyr Ile Val Val Phe Leu Asn
1 5 10 15

Ile Ser Glu Pro Arg Lys Gly Thr Val Glu Ile Arg Tyr Tyr Asn Leu
20 25 30

Met Gly Pro Leu Ser Val Cys Gly Leu Leu Leu Thr Glu Met Leu Cys
35 40 45

Ser Thr Trp Ala Ala Met Arg Leu Pro
50 55

<210> 1870

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1870

Val Pro His Ser Glu Leu Leu Gln Pro Ala Ser Arg Ile Cys Ser Met
1 5 10 15

Ser Arg Arg Ser Gln Ser Leu Ala Ala Ser Ser Val Pro Gly Glu Arg
20 25 30

Cys Leu Glu Leu Ser Ser Gln Gly Val Met Ser Ala Ser Arg Val Cys
35 40 45

Met Gly Ala Glu Gly Thr Leu Leu Leu Pro Pro Trp Ser Gly Asn
50 55 60

<210> 1871

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1871

Thr	Trp	Cys	His	Glu	Val	Gly	Glu	Leu	Gly	Glu	Leu	Ser	His	Ser	Ser
1				5					10					15	

Tyr	Arg	Xaa	Ala	Phe	Leu	Lys	Cys	Pro	Leu	Thr	Ser	Arg	Phe	Cys	Ser
			20					25					30		

Arg	Ser	Ser	Phe	Ser	Glu	Leu	Lys	Val	Ile	Phe	Ile	Tyr	Val	Trp	Gly
			35					40					45		

Lys	Ile	Asn	Ser	Ser	Ser	Lys	Arg	Ile	Leu	Ile	Arg	Leu	Xaa	Xaa	Leu
		50					55					60			

Leu	Lys	Thr	Xaa	Pro	Asn
65					70

<210> 1872

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1872

Glu	Thr	Trp	His	Leu	Asn	His	Ile	Leu	Ser	Leu	Gly	Lys	Ser	Phe	Gly
1				5						10				15	

Leu Cys Ser Cys Phe Val Cys Phe Thr Cys Phe Pro Pro Ser Pro Lys
20 25 30

Pro Phe Val Leu Ser Val Lys Leu Thr Phe Pro Phe Xaa Phe Leu
35 40 45

<210> 1873

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1873

Lys Thr Leu Leu Trp Asn Met Lys Leu Cys Val Arg Trp Arg Asp
1 5 10 15

Pro Leu Asn Leu Arg Ala Leu Asn Ser Pro Glu Ser Thr Leu Gly Arg
20 25 30

Phe Ala Met Glu Leu Lys Leu Glu Val Ile Phe Leu Gly Ala Leu Glu
35 40 45

Ser Phe Leu Gly Thr Gln Asn Tyr Gln Lys Ser Gly Thr Val Arg Arg
50 55 60

Lys Ser Val Cys Lys Thr Gly Phe Leu Glu Val
65 70 75

<210> 1874

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1874

Ile Asn Asn Ile Ser Arg Gln Ile Tyr Leu Thr Asp Asn Pro Glu Ala
1 5 10 15

Val Ala Ile Lys Leu Asn Gln Thr Ala Leu Gln Ala Val Thr Pro Ile
20 25 30

Thr Ser Phe Gly Lys Lys Gln Glu Ser Ser Cys Pro Ser Gln Asn Leu
35 40 45

Lys Asn Ser Glu Met Glu Asn Glu Asn Asp Lys Ile Val Pro Lys Ala
50 55 60

Thr Ala Ser Leu Pro Glu Ala Glu Glu Leu Ile Ala Pro Gly Thr Pro

65 70 75 80
Ile Gln Phe Asp Ile Val Leu Pro Ala Thr Glu Phe Leu Asp Gln Asn
 85 90 95
Arg Gly Ser Arg Arg Thr Asn Pro Phe Gly Glu
 100 105

<210> 1875

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1875

Gly Glu Glu Ala Cys Phe Ala Val Gly Ser Leu Val Leu Ala Arg Ser
1 5 10 15

Leu Arg Val Cys Thr Gly Gly Thr Leu Pro Leu Pro Ala Pro Phe Leu
20 25 30

Xaa Xaa Pro Val Gly Asn Ile His Leu Phe Met Pro Val Cys Cys Met
35 40 45

Gln Ala Phe Trp Leu Pro Thr Leu Gln Gln Asn Glu Leu His Gln Leu
50 55 60

Leu Ser Ala Asp Ser Ala His Arg Glu Ser Trp Ser His Ser Leu Phe
65 70 75 80

Cys Phe Ala Leu

<210> 1876

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1876

Gln Trp Gly Phe Val Xaa Asp Lys Met Ala Met Ala Gly Arg Val Xaa
1 5 10 15

Pro Pro Ser Tyr Asp Glu Arg Pro Phe His Arg Pro Val Thr Glu Leu
20 25 30

Arg Glu Asp Lys Xaa Ser Glu Xaa Xaa Gly Pro Ala Ser Leu Leu Leu
35 40 45

Thr Arg Pro Val Pro Lys Lys Tyr Val Phe Gln Asn Ala Leu Asn Leu
50 55 60

Asn

65

<210> 1877

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1877

Arg Ala Pro Pro Gly Gln Xaa Gly Gly Asp His Gln Asp Phe Ile Gln

1

5

10

15

Gly Gly Arg Asp Gln Glu Ile Lys Pro Pro Thr Leu Ser Val His Thr

20

25

30

Gly Leu Cys Asp Tyr Ile Asp Gln Pro Leu Lys Ile Lys Gln Xaa Leu

35

40

45

Ile Cys Xaa Xaa Asp Lys Xaa Lys Ile Ser

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55

<210> 1878

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1878

Ala Leu Asp Trp Leu Pro Glu Gly Leu Val Lys Ile His Ser His Pro
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Ala Gly Ser Gly Ser Asn Arg Gly Phe His Ser Phe Ile Ser Xaa Leu
20 25 30

Ala Asp Lys Asp Pro Gly Xaa His Val Leu Leu Ile Xaa
35 40 45

<210> 1879

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1879

Val Lys Met Ile Ile Gly Pro Lys Leu Thr Ala Leu Pro Lys Arg Gln
1 5 10 15

Arg Ser Gln Asp Ile Gly Arg Ser Gly Ala Ala Leu Glu Thr Leu Lys
20 25 30

Phe Thr Ser Met Arg Gly Leu Glu Cys Ser Leu Gly Arg Arg Ala Ser
35 40 45

Thr Cys Ser Pro Gly Pro
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<210> 1880

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1880

Ser Ala Cys Gly Ser Pro Gly Gly Asn Phe Pro Ser Pro Arg Gly Gly
1 5 10 15

Ser Gly Val Ala Ser Met Glu Arg Ala Glu Ser Ser Ser Thr Glu Pro
20 25 30

Ala Lys Ala Ile Lys Pro Ile Asp Gln Lys Ser Val His Gln Ile Cys

35

40

45

Ser Gly Gln Val Val Leu Ser Leu Ser Thr Ala Val Lys Glu Leu Val
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Glu Asn Ser Leu Asp Ala Gly Ala Thr Asn Ile Asp Leu
65 70 75

<210> 1881

<211> 733

<212> DNA

<213> Homo sapiens

<400> 1881

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tctcccgac tcctgaggtc acatgcgtgg tggaggacgt aagccacgaa gaccctgagg 180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca acccccatcg 360
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttct ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggtctctg 660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
gactctagag gat 733

<210> 1882

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1882

Trp Ser Xaa Trp Ser
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<210> 1883

<211> 86

<212> DNA

<213> Homo sapiens

<400> 1883

gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaatat ctgccatctc aattag 86

<210> 1884

<211> 27

<212> DNA

<213> Homo sapiens

<400> 1884

gcggcaagct ttttgcaaag cctaggc 27

<210> 1885

<211> 271

<212> DNA

<213> Homo sapiens

<400> 1885

ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 1886

<211> 32

<212> DNA

<213> Homo sapiens

<400> 1886

gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 1887

<211> 31

<212> DNA

<213> Homo sapiens

<400> 1887

gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 1888

<211> 12

<212> DNA

<213> Homo sapiens

<400> 1888
ggggactttc cc

12

<210> 1889
<211> 73
<212> DNA
<213> Homo sapiens

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ccatctcaat tag 73

<210> 1890
<211> 256
<212> DNA
<213> Homo sapiens

<400> 1890
ctcgagggga ctttcccgga gactttccgg ggactttccg ggactttcca tctgccatct 60
caattagtca gcaaccatag tcccgccct aactccgcc atccgcccc taactccgcc 120
cagttccgcc cattctccgc ccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt 256

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/05988

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : Please See Extra Sheet.

US CL : 536/23.1; 435/320.1, 325, 455, 68.1; 530/300, 350

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.1; 435/320.1, 325, 455, 68.1; 530/300, 350

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

BIOSIS, MEDLINE, CAPLUS, BIOTECHDS, EMBASE, SEQ Search
prostate, cancer, carcinoma, protein, peptide, gene, dna, transfect

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SCHAAPVELD et al. The Mouse Gene Ptp ^{rf} Encoding the Leukocyte Common Antigen-Related Molecule LAR: Cloning, Characterization, and Chromosomal Localization. Genomics. 01 May 1995, Vol. 27, No. 1, pages 124-130, see entire document.	1-4, 21
X	DE PLAEN et al. Structure, chromosomal localization, and expression of 12 genes of the MAGE family. Immunogenetics. September 1994, Vol. 40, pages 360-369, especially page 363 and entire document.	1-4 and 21



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*G* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

15 MAY 2000

Date of mailing of the international search report

05 JUL 2000

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
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PARALEGAL SPECIALIST
CHEMICAL MATRIX

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05988

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ADAMS et al. Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence. Nature. 28 September 1995, Vol. 377, Supp, pages 3-17, see entire document.	1-4 and 21
X	HILLIER et al. Generation and analysis of 280,000 human expressed sequence tags. Genome Research. 1996, Vol. 6, No. 9, pages 807-828, see entire document.	1-4 and 21
X	KOHFELDT et al. Nidogen-2: A new basement membrane protein with diverse binding properties. J. Mol. Biol. 1998, Vol. 282, No. 1, pages 99-109, see entire document.	1-4 and 21

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05988

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-12, 14-16, 21 and SEQ ID NOS: 1-10

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05988

A. CLASSIFICATION OF SUBJECT MATTER: IPC (7):

C07H 21/04; C12N 15/63, 15/85, 15/09; C07K 5/00, 14/00; C12P 21/00

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-12, 14, 15, 16 and 21, drawn to cDNA, polypeptides, genes, a method of using the cDNA to make host cells comprising the cDNA, and a method of making the polypeptide.

Group II, claim(s) 13, drawn to an antibody specific for the polypeptides of Group I.

Group III, claim(s) 17, drawn to a therapeutic method of using the cDNA or the polypeptide of Group I.

Group IV, claim(s) 18 and 19, drawn to a diagnostic method of using the cDNA or polypeptide of Group I.

Group V, claim(s) 20, drawn to a method of using the polypeptide of Group I to isolate a binding partner.

Group VI, claim(s) 22, drawn to a method of using the cDNA of Group I to identify the activity of the polypeptide encoded by the cDNA.

Group VII, claim 23, drawn to the binding partner made by the method of Group V.

The inventions listed as Groups I-VII do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: PCT Rule 13.1 and Annex B do not provide for unity of invention between two or more different products or methods of use that share a special technical feature.

In addition, each Group detailed above reads on distinct Groups drawn to multiple SEQ ID Numbers. The sequences are distinct because they are unrelated sequences, and a further lack of unity is applied to each Group. The lack of unity is partially waived and the Applicant(s) must further elect up to 10 SEQ ID Numbers for examination in the elected Group detailed above.